

CENSUS OF NEW SOUTH WALES MOSSES

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ABSTRACT

Ramsay, Helen P. (School of Botany, University of New South Wales, Kensington, N.S.W. Australia 2033) 1984. Census of New South Wales Mosses. *Telopea* 2(5): 455-533 — The Census gives a checklist containing 527 species of mosses in 171 genera and 56 families. Compilation of the list is based on literature and information obtained from herbarium specimens in Australian herbaria. The distribution of species is recorded for 13 ecogeographic regions of New South Wales. Included are lists of synonyms, *nomina nuda*, unsubstantiated records and a bibliography.

CONTENTS

INTRODUCTION

The compilation of a checklist of New South Wales mosses and their distribution was undertaken in an effort to determine how much information was available on New South Wales mosses in the literature and in collections based in Australian herbaria. Reverend W.W. Watts and T. Whitelegge early this century (1902, 1905) published lists of Australian mosses, incorporating information from previous work of Mitten (1856, 1860, 1882) and Forsyth (1899). Watts was responsible for collecting many new species determined by Brotherus in the period 1896-1918. The *Census Muscorum Australiensium* (Watts and Whitelegge 1902, 1905) was never completed although manuscripts were in the process of being compiled at the time of Watts' death in 1920; the published lists having dealt only with acrocarpous families.

Further work was continued by Burges (1932, 1935) who prepared but never published a census of New South Wales mosses (1952) which incorporated Watts' manuscript and lists for pleurocarpous families (some 526 species in all).

In 1952 Steere remarked that "Since the Census of New South Wales mosses published by Watts and Whitelegge (1902-1905) no further general work (on Australian mosses) has appeared". It is with the kind permission of Professor Burges, and as a former student of his, that I have much pleasure in being able to complete the project to which so many have contributed. There has been an increase in knowledge of Australian mosses during the last 30 years with Sainsbury's New Zealand Mosses (1955a), Scott and Stone's (1976) Mosses of Southern Australia and Catcheside's (1980) Mosses of South Australia, but details of species distribution and of the sub-tropical species in Australia are still very limited. New South Wales has the most interesting and diverse moss flora in Australia since sub-alpine, arid zone, temperate and tropical species representative of a large percentage of the families of mosses all occur in this region. From an

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estimated 1,100–1,200 taxa in Australia (D.G. Catcheside, pers. comm.), New South Wales has about 44% represented, Queensland about 33%, Victoria and Tasmania both 30%, South Australia 16% and Western Australia only 8%. It is hoped the Census will act as a stimulus for future collecting and taxonomic work.

METHODS

Collections of New South Wales mosses were examined in most Australian Herbaria (AD, BRI, CANB, CBG, HO, NE, NSW, MEL, MELU, SYD, UNSW, UWA) and names and distribution details were obtained for each specimen. The National Herbarium of New South Wales, containing collections of Whitelegge, Forsyth, Watts and others, has been the primary and major source of data for the Census. The distributional data follow the geographical subdivisions used for 'Plants of New South Wales' (Jacobs & Pickard 1981), see map on p.536; within New South Wales these subdivisions are derived from Anderson (1961). As stated in Jacobs & Pickard the "Census serves to indicate the state of the art", and this is true for the mosses where our knowledge is in its infancy. Distributional data, for instance, tell us about where people have collected rather than indicating the true range of the species. Since there has been no bryologist engaged on taxonomic work specifically related to mosses in the National Herbarium of New South Wales since W.W. Watts (1916) (see Ramsay & Briggs 1979) and A. Burges (1952), much is awaiting attention and there are still many unnamed collections.

CRITERIA USED AND ORGANISATION OF DATA

The Census is arranged by families according to Crosby & Magill (1978). Within each family, genera, then species are listed alphabetically. Synonyms appear in the Census and are also listed in a separate index. Taxonomic and nomenclatural changes from literature were included up to the time of going to press, data having been derived from Index Muscorum (Wijk et al. 1959–1969) and supplements from Crosby (1977, 1979, Crosby & Bauer 1981) as well as from published revisions by individual taxonomists (see Bibliography). Name changes in literature have been accepted as relating to the name on the packet unless, or until, the specimen has been examined by an expert or renamed.

It must be stressed that verification has only been possible where specialists have borrowed and checked determinations. The work contains only published names and combinations except in the genus *Macromitrium* for which a revision of Australian species is in manuscript (Vitt & Ramsay) and *Racopilum* under review by van Zanten who has examined all relevant specimens.

A taxon is recorded as present in any region if at least one specimen with that name is available in an Australian herbarium or private collection. Reliability of identification may be questioned where few specimens of a particular taxon have been found and for this reason where collections are for 3 or fewer specimens for a particular area this is indicated. Species records not supported by specimens are listed separately at the end of each genus as 'previous record not substantiated'. *Nomina nuda* which have not been accounted for in the synonymy in the Census are treated separately (p.509).

Distribution of taxa in other states of Australia (extra-N.S.W.) is indicated as well as the extra-Australian range. These data are included for convenience but are not necessarily definitive. Within New South Wales, distribution is shown by the ecogeographic regions used by Jacobs & Pickard (1981) based on Anderson (1961). Lord Howe Island species are included since the island is politically part of New South Wales. The distribution also encompasses the Australian Capital Territory (A.C.T.) which is geographically located in the Southern Tablelands Division of New South Wales. Extra-Australian distributions follow the regions named in Jacobs & Pickard (1981) and listed on page 459 here.

The paucity of species and collections within some regions highlights the need for further work and more intensive surveys of distribution. The original data, which include collectors' notes for some 20,000 specimens, will remain available so that lists within regions may be compiled and added to as new collections are made, particularly with a view to increasing our knowledge of ecological preferences for species. Already it is clear that many species have been collected from only a limited area or have a very restricted distribution. Such species should be studied thoroughly and efforts made to determine their true range.

This Census recognises 527 species (not including 22 unsubstantiated records) in 171 genera from 56 families of mosses. A number of infraspecific taxa add to the total species diversity in the area. In all, 81 species are listed as being restricted in distribution to New South Wales (Ramsay 1984a). Although a large number of new records are included e.g. *Drepanocladus uncinatus* at Mt. Kosciusko, *Brachymenium exile*, these have not been highlighted in the list. Relationships between New South Wales species and those in other states of Australia indicate a separation into those sub-tropical species that have been recorded from New South Wales and Queensland only, and those (the majority) with affinities to the temperate bryoflora of southern Australia. Of the sub-tropical species many have been collected only in the MacPherson-Macleay overlap on the border between New South Wales and Queensland. This region is considered as phytogeographically significant for higher plants (Burbidge 1960). A preliminary survey of phytogeographical relationships of the mosses of New South Wales is included separately (Ramsay 1984a). The distributions of mosses within the Australian Capital Territory (Ramsay & Streimann 1984) and on Lord Howe Island (Ramsay 1984b) have also been analysed in separate papers (see pp. 559, 549).

ACKNOWLEDGEMENTS

Financial support from the Australian Biological Resources Study from 1974 to 1979 (incl.) to enable distributional information to be recorded necessitated the complete sorting and repackaging of specimens into a uniform system at the National Herbarium of New South Wales. Without the co-operation of the Director and Staff at the Herbarium in allowing me access at all times and their contribution in repackaging and labelling the collections, the task could not have been completed.

Many others have also assisted freely. The Directors and Staff of various Herbaria (AD, BRI, CANB, CBG, HO, NE, NSW, MEL, MELU, SYD, UNSW, UWA) have helped greatly by making collections and facilities available and supplying information when requested. Dr A. Touw, Rijksherbarium, Leiden, has contributed much time and effort in identifying Streimann's collections from the National Botanic Gardens. Help has also been given by Staff of the British Museum and the V.F. Brotherus Herbarium at Helsinki. Personal thanks to M. Austin, B. Austin, D.G. Catcheside, G. Harden, T. Howard, A. Murray, J. Parram, L. Pedley, G.A.M. Scott, I.G. Stone, H. Streimann and J.H. Willis, who have given me specimens, supplied unpublished lists and/or other information, checked sections of the manuscript, or allowed me access to their private collections. My two assistants, T. Boyd (1976) and P. Wilson (1978), gave invaluable help in sorting, checking and recording data and in collecting and assembling the data for the manuscript. C. Puttock helped with checking, indexing and literature lists. Assistance in reading sections of the manuscript and helpful suggestions given by H. Ando, D.G. Catcheside, T. Koponen, W. Margadant, R. Pursell, G.A.M. Scott, I.G. Stone, D.H. Vitt and B.O. van Zanten are also gratefully acknowledged. Extra distributional data supplied by I.G. Stone were obtained during travel for research projects funded by the Australian Research Grants Committee. The following people examined and checked identification of genera and species of special interest to them — H. Ando, A. Touw, B.O. van Zanten, I.G. Stone, M.A. Bruggemann-Nannenga, J. Lewinsky, D.H. Vitt, T. Koponen, R.D. Seppelt and H. Mohamed.

Their expertise and co-operation proved a most valuable contribution. A. Lonergan, S. Wray, J. Ratcliffe and F. Colman have helped enormously by typing drafts and the final manuscript. The encouragement and patient support of my husband has been of immense help in enabling the work to be completed.

The author accepts full responsibility for any errors or omissions and would appreciate notification of any inaccuracies.

ADDENDA

One species of *Archidium* Brid. (Archidiaceae) has now been found in New South Wales (I.G. Stone, pers. comm.).

I.G. Stone (pers. comm.) reports the following new records for New South Wales. Details to be published later.

Bruchia eckloniana C. Muell. — NWS; V; S Afr

Ephemerum rehmannii (C. Muell.) Broth. — SFWP; VSW

Tortula rhizophylla (Sak.) Iwats. & Saito — CC; Q; S Afr

The following references have been added since the manuscript was submitted for publication.

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ABBREVIATIONS AND SYMBOLS USED IN TABLE 1

Distribution within New South Wales

LHI	Lord Howe Island	FWP	Far Western Plains
C	Coast	N	North
T	Tablelands	C	Central
WS	Western Slopes	S	South
WP	Western Plains	NSW	New South Wales

- present in the subdivision > 3 collections
- no sighted or cited specimen from the subdivision
- ? specimen or cited locality inadequate for reliable record; in the extra-NSW column of Table 1 the "?" precedes the abbreviation for the state to which the doubtful record applies.
- ★ number of specimens ≤ 3

Extra-New South Wales Distribution

Q — Queensland, V — Victoria, T — Tasmania, Y — Northern Territory, S — South Australia, W — Western Australia, A — Australian Capital Territory (included separately here although it lies within the geographical boundaries of N.S.W. [see Ramsay & Streimann 1984] as it is a political entity)

Extra-Australian Distribution

N	North, northern or New	Malesia	The Malay Peninsula, Philippines, Malaysia, Indonesia and New
S	South, southern		Guinea, a phytogeographic not a political region
E	East, eastern	Medit	Mediterranean region
W	West, western	N Caled	New Caledonia
C	Central	NG	New Guinea
cosmop	cosmopolitan	NZ	New Zealand
Afr	Africa	Subant I	Subantarctic Islands
Amer	America	Oc	Oceania
As	Asia	Pac	Pacific
Eur	Eur	Philip	Philippines
I	Island or Islands		

TABLE 1. DISTRIBUTION AND CHECKLIST OF MOSSES OF NEW SOUTH WALES.
(Families arranged according to Crosby & Magill 1981.) For index to genera and families see p. 532.

	○ absent			● > 3 collections			★ ≤ 3 collections							
	L H I	C	T	WS	WP	FWP	EXTRA NSW	EXTRA AUST						
	N	C	S	N	C	S	N	C	S	N	S	N	S	
1. SPHAGNACEAE														
SPHAGNUM L.														
<i>S. australe</i> Mitt.	○	○	○	○	○	●	○	○	○	○	○	○	○	VT
[<i>S. antarcticum</i> Mitt., <i>S. perichaetiale</i> Warnst.]														NZ, S Amer, SAfr
<i>S. beccarii</i> Hampe	○	●	○	○	○	●	○	○	○	○	○	○	○	SE As, Afr, Amer
[<i>S. erythrocalyx</i> auct. non Hampe]														
<i>S. cristatum</i> Hampe	○	●	●	○	●	●	●	○	○	○	○	○	○	QVTA NZ
[<i>S. decipiens</i> Warnst., <i>S. grandifolium</i> Warnst., <i>S. magellanicum</i> Brid., <i>S. subbicolor</i> Hampe, <i>S. wardellense</i> Warnst.]														
<i>S. falcatulum</i> Besch.	○	●	★	★	○	★	○	○	○	○	○	○	○	QVTA NZ, S Amer, Subant I
[<i>S. brotherussii</i> Warnst., <i>C. cuspidatum</i> Erh. ex Hoffm., <i>S. drepanocladum</i> Warnst., <i>S. serratifolium</i> Warnst., <i>S. wattsii</i> Warnst.]														
<i>S. molliculum</i> Mitt.†	○	●	●	●	○	●	★	○	○	○	○	○	○	VTSWA
[<i>S. commutatum</i> Warnst., <i>S. cymbifoloides</i> C. Muell., <i>S. comosum</i> C. Muell., <i>S. novo- zealandicum</i> Mitt., <i>S. pseudorufescens</i> Warnst., <i>S. subcontortum</i> Hampe, <i>S. subsecundum</i> auct. non Nees]														
2. ANDREAEACEAE														
ANDREAEA Hedw.														
<i>A. australis</i> Mitt.	○	○	○	○	○	○	●	○	○	○	○	○	○	VTA NZ
<i>A. mutabilis</i> Hook. f. & Wils.	○	○	○	○	○	●	●	○	○	○	○	○	○	QVTA Cosmop
[<i>A. amblyophylla</i> C. Muell. ex Broth., <i>A. rupestris</i> auct. non Hedw.]														
<i>A. nitida</i> Hook f. & Wils.	○	○	○	○	○	○	★	○	○	○	○	○	○	VTA NZ, NG, Afr, S Amer, Subant I

†See Catcheside 1980.

3. FISSIDENTACEAE (cont'd)	L H I	C			T			WS			WP		FWP		EXTRA NSW	EXTRA AUST
		N	C	S	N	C	S	N	C	S	N	S	N	S		

FISSIDENS (cont'd)

<i>F. pallidus</i> Hook. f. & Wils. [<i>F. whiteleggei</i> C. Muell. ex Rodway]	○	●	●	●	○	●	○	○	○	○	○	○	○	○	QVT	NZ
<i>F. pungens</i> C. Muell. & Hampe	○	●	●	●	●	★	●	●	○	●	○	○	○	○	QVTYS- WA	NZ
<i>F. rigidulus</i> Hook. f. & Wils. ssp. <i>rigidulus</i>	○	★	★	★	★	★	★	●	○	★	○	○	○	○	VTA	NZ, C&S Amer, NG, Solomon I
<i>F. sordidevirens</i> Broth.	○	●	★	○	○	○	○	○	○	○	○	○	○	○	○	○
<i>F. subtenellus</i> Broth. & Watts	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
<i>F. taylorii</i> C. Muell.	○	★	●	●	●	●	●	●	●	●	●	●	●	●	VTSWA	NZ
[<i>F. brevifolius</i> Hook. f. & Wils., <i>F. elatelloides</i> C. Muell. & Hampe, <i>F. macrodus</i> Hampe, <i>F. semilimbatus</i> C. Muell. & Hampe]	●	○	○	○	○	○	○	○	○	○	○	○	○	○	QVTSA	NZ
<i>F. tenelliformis</i> Broth. & Watts	●	○	○	○	○	○	○	○	○	○	○	○	○	○	VTSWA	NZ, S Afr
<i>F. tenellus</i> Hook. f. & Wils.	●	●	●	●	○	○	○	●	●	●	●	●	●	●	●	●
<i>F. vittatus</i> Hook. f. & Wils.	○	★	★	●	○	○	●	●	●	●	●	●	●	●	●	●
<i>F. wattssii</i> Broth.	●	○	○	●	○	○	○	○	○	○	○	○	○	○	○	○
[Previous record not substantiated: <i>F. ampliretis</i> (C. Muell.) Broth., <i>F. delicatulus</i> (Aongstr.) Watts & Whitel., <i>F. perangustatus</i> Broth.]	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

5. DITRICHACEAE

CHRYSOBLASTELLA Williams

<i>C. chilensis</i> (Mont.) Reim. [<i>Cheilotrichia chilensis</i> (Mont.) Broth.]	○	○	○	○	○	○	●	○	○	○	○	○	○	○	VT	S Amer
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CERATODON Brid.

<i>C. purpureus</i> (Hedw.) Brid. [<i>C. convolutus</i> Reichdt., <i>C. stenocarpus</i> Bruch. & Schimp. ex C. Muell.]	●	●	●	●	●	●	●	●	●	●	●	●	●	●	QVTYS- WA	Cosmop
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DISTICHIUM B.S.G.

<i>D. capillaceum</i> (Hedw.) B.S.G.	○	○	○	○	○	○	●	○	○	○	○	○	○	○	A	N Hemis, NZ
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DITRICHUM Hampe

D. brachycarpum Hampe	○ ○ ★ ○ ○ ★ ★ ○ ○ ○ ○ ○ ○ ○ ○	V	NZ, Subant I
D. brevirostre (R. Br. ter.) Broth.	○ ○ ○ ○ ○ ○ ○ ★ ○ ○ ○ ○ ○ ○ ○	VT	NZ,
[<i>D. subbrachycarpum</i> (C. Muell.) Par.]				Subant I
D. cylindricarpum (C. Muell.) F. Muell.	..	○ ● ● ● ● ● ● ● ● ○ ○ ○ ○ ○ ○	VTSA	NZ, Subant I
[<i>D. elongatum</i> (Hook. f. & Wils.) Mitt.,				
<i>D. strictum</i> (Hook. f. & Wils.) Hampe]				NZ
D. difficile (Dub.) Fleisch.	.. . . . ..	○ ● ● ● ● ● ● ● ● ○ ○ ○ ○ ○ ○	QVTSA	NZ, As, S Afr, N&S Amer
[<i>D. affine</i> (C. Muell.) Hampe, <i>D. baileyi</i> C. Muell. nom. nud., <i>D. flaccidulum</i> C. Muell. in Watts & Whitel., <i>D. flexifolium</i> Hampe, <i>D. muelleri</i> (Hampe) Hampe, <i>D. setosum</i> (Hook. f. & Wils.) Reichardt.]				
D. punctulatum Mitt.	.. . . . ..	○ ○ ○ ○ ○ ○ ○ ★ ○ ○ ○ ○ ○ ○ ○	VT	NZ, S Afr, Subant I
D. rufo-aureum (Hampe) Willis	.. . . . ..	○ ○ ○ ○ ○ ○ ○ ● ○ ○ ★ ○ ○ ○ ○	V?T	NZ
[<i>Aongstroemia rufo-aurea</i> Hampe]				

ECCREMIDIUM Wils.

E. arcuatum (Hook. f. & Wils.) C. Muell.	..	○ ○ ○ ○ ○ ○ ○ ★ ○ ○ ○ ○ ○ ○ ○	QVSW	
E. brisanicum (Broth.) Stone & Scott	..	○ ● ● ● ○ ○ ★ ○ ○ ○ ○ ○ ○ ○ ○	Q	
[<i>Archidium brisanicum</i> (Broth.) Broth., <i>Micromitrium brisanicum</i> (Broth.) Crosby, <i>Nanomitrium brisanicum</i> (Broth.) Broth., <i>Pleuridium austro-subulatum</i> Broth. ex Roth.]				
E. exiguum (Hook. f. & Wils.) Wils.	.. . . ..	○ ○ ★ ○ ○ ○ ○ ○ ○ ○ ★ ○ ○ ○ ○ ○ ○	VW	S Afr
E. minutum (Mitt.) Stone & Scott	.. . . ..	○ ○ ● ○ ○ ○ ○ ○ ○ ○ ★ ○ ○ ○ ○ ○ ○	VW	S Afr
[<i>Ephemerium whiteleggei</i> Broth. & Geh., <i>Bruchia whiteleggei</i> C. Muell., <i>Sporledera whiteleggei</i> (C. Muell.) Broth.]				
E. pulchellum (Hook. f. & Wils.) C. Muell.	○ ○ ● ○ ★ ○ ○ ● ○ ○ ● ★ ○ ○ ○ ○ ○	QVTYS-	NZ	
[<i>Archidium stolonaceum</i> C. Muell.]			WA	
E. whiteleggei Broth.	.. . . ..	○ ○ ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	W	NZ
[<i>Sporledera minutissima</i> (Dix. & Sainsb.) Sainsb.]				

PLEURIDIUM Rabenh.

P. arnoldii (R. Br. ter.) Par.	.. . . ..	○ ○ ○ ○ ○ ○ ○ ★ ○ ○ ○ ○ ○ ○ ○ ○	VA	NZ
P. brachycaulon (C. Muell.) Kindb.	.. . . ..	○ ○ ○ ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	V	
P. curvisetum Stone	.. . . ..	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	VSA	
P. krauseanum Par.	.. . . ..	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	

5. DITRICHACEAE (cont'd)	L H I	C			T			WS			WP		FWP		EXTRA NSW	EXTRA AUST
		N	C	S	N	C	S	N	C	S	N	S	N	S		
PLEURIDIUM (cont'd)																
<i>P. nervosum</i> (Hook.) Mitt. [<i>P. gracilellum</i> (Mitt.) Mitt.]	○	●	●	●	●	●	●	●	●	●	●	●	●	VTYS-WA	NZ, S Afr, S Amer
<i>P. viride</i> (C. Muell.) Kindb. [<i>Astomum viride</i> C. Muell.]	○	○	●	○	○	○	○	○	○	○	○	○	○		
7. SELIGERIACEAE																
BLINDIA B.S.G.																
<i>B. magellanica</i> Schimp.	○	○	○	○	○	○	●	○	○	○	○	○	○	VT	NZ, S Amer, Subant I
<i>B. robusta</i> Hampe [<i>B. tenuifolia</i> (Hook. f. & Wils.) Mitt.]	○	○	○	○	○	●	●	○	○	○	○	○	○	VTA	NZ, S Amer
8. DICRANACEAE																
BRUCHIA Schwaegr.																
<i>B. brevipes</i> Harv. ex Hook.	○	★	○	○	○	○	○	★	○	○	★	○	○	VSW	S Afr, NG
CAMPYLOPUS Brid.																
<i>C. austro-subulatus</i> Broth. & Geh.†	○	○	○	○	○	○	○	★	○	○	○	○	○	QVSA	
<i>C. bicolor</i> (C. Muell.) Wils.	○	★	●	★	○	●	●	★	○	○	★	○	○	QVTSW	NZ, Afr
<i>C. clavatus</i> (R. Brown) Wils.	●	●	●	★	★	●	●	★	●	●	★	○	○	Q?VTS-WA	NZ, Afr, S Amer
[<i>C. appressifolius</i> Mitt.																
<i>C. institutus</i> Hook. f. & Wils.]																
<i>C. denticuspis</i> Broth. var. <i>lutescens</i> Broth.	○	○	●	○	○	○	○	○	○	○	○	○	○	QVTY-?SWA	Cosmop
<i>C. introflexus</i> (Hedw.) Brid.	●	●	●	●	★	●	●	★	●	●	●	●	●	QVTS-W?A	
[<i>C. pudicus</i> (C. Muell.) Jaeg.,																
<i>C. tasmanicus</i> Par.]																
<i>C. pallidus</i> Hook. f. & Wils.	●	●	●	●	○	●	●	○	●	○	○	○	○	QVTS-W?A	NZ
[<i>C. novae-valesiae</i> Broth., <i>C. torquatus</i> Mitt.,																
? <i>C. woollsii</i> (C. Muell.) Par.]																
<i>C. perauriculatus</i> Broth.	○	●	○	?	★	○	○	○	○	○	○	○	○	Q	
<i>C. viridicatus</i> (C. Muell.) Par.	○	○	●	○	○	○	○	○	○	○	○	○	○		

†Under review by Frahm & Catcheside — probably a new species as Australian populations do not match the New Guinea forms (Catcheside pers. comm.).

DICNEMOLOMA (Ren.) Ren.‡

D. pallidum (Hook.) Wijk & Marg.	● ● ● ● ● ● ●	★ ★ ★ ○ ○ ○ ○	QVTYS- NZ
[<i>D. sieberianum</i> (Hornschr.) Broth., <i>Leucoloma sieberianum</i> (Hornschr.) Jaeg., <i>Sclerodontium pallidum</i> Hook.]	○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○	
[Previous record not substantiated: <i>D. fraseri</i> (Mitt.) Ren., <i>D. imbricatum</i> Broth. & Geh., <i>D. strictipilum</i> (C. Muell.) Par.]	○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○	
DICRANELLA (C. Muell.) Schimp.			
D. apophysatula (C. Muell.) Broth.	○ ● ★ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○	
D. cardotii (R. Br. ter.) Dix.	○ ● ● ★ ○ ○ ○	○ ○ ○ ○ ○ ○ ○	T NZ
[<i>D. wattii</i> Broth., <i>Dichodontium wattii</i> (Broth.) Broth.]	○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○	
D. dietrichiae (C. Muell.) Jaeg.	○ ● ● ○ ★ ● ○	○ ○ ○ ○ ○ ○ ○	QVT
[<i>D. tricurvis</i> (C. Muell.) Mitt.]	○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○	
D. jamesonii (Mitt.) Broth.	○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○	VTS NZ, [<i>Anisothecium jamesonii</i> Mitt.] S Amer
D. pycnoglossa (Broth.) Kindb.	○ ● ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○	Q
[<i>Anisothecium pycnoglossum</i> Broth.]	○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○	
[Previous record not substantiated: <i>D. stackhousiana</i> (C. Muell.) Broth., <i>Aongstroemia stackhousiana</i> C. Muell.]	○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○	
DICRANOLOMA Ren.			
D. argutum (Hampe) Par.	○ ● ● ★ ○ ● ○	○ ○ ○ ○ ○ ○ ○	Q
[<i>Dicranum whiteleggei</i> C. Muell.]	○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○	
D. austro-scoparium (Broth.) Watts & Whitel.	○ ○ ★ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○	Q
[<i>Leucoloma austro-scoparium</i> C. Muell. ex Broth.]	○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○	
D. billardieri (Brid.) Par.	★ ● ★ ○ ★ ● ○	○ ○ ○ ○ ○ ○ ○	QVTSA NZ, Afr, S Amer
D. dicarpum Nees Par.	● ● ● ★ ● ● ○	★ ○ ○ ○ ○ ○ ○	QVTA NZ, SE As
[<i>Dicranum dicarpum</i> (Nees), <i>Leucoloma dicarpum</i> (Nees) Broth.]	○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○	
D. menziesii (Tayl.) Par.	● ● ● ○ ● ● ○	○ ○ ○ ○ ○ ○ ○	QVT NZ, Oc, S Amer
D. robustum (Hook. f. & Wils.) Sainsb.	○ ○ ★ ○ ★ ● ○	○ ○ ○ ○ ○ ○ ○	A NZ
setosum (Hook. f. & Wils.) Sainsb.	○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○	Q
D. serratum (Broth.) Par.	○ ● ● ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○	
[<i>Leucoloma serratum</i> Broth.]	○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○	
D. sullivanii (C. Muell.) Par.	○ ○ ○ ○ ★ ○ ○	○ ○ ○ ○ ○ ○ ○	V
[<i>Dicranum sullivanii</i> C. Muell.]	○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○	

‡Retained here as *Dicnemoloma* although Crosby (pers. comm.) and Crosby & Magill (1981) point out this name is preceded by *Sclerodontium*.

9. DICNEMONACEAE

EUCAMPTODON (Mont.) Mont.
E. muelleri Hampe & C. Muell. ○ ● ● ● ● ● ○ ○ ○ ○ ○ ○ ○ ○ ○ QV

11. LEUCOBRYACEAE

14. POTTIACEAE (cont'd)	L H I	C			T			WS			WP		FWP		EXTRA NSW	EXTRA AUST
		N	C	S	N	C	S	N	C	S	N	S	N	S		
POTTIA (Reichenb.) Fuernr.															VSW	
<i>P. brevicaulis</i> (Tayl.) C. Muell.	..	○	○	○	○	○	○	○	●	○	○	○	○	○	Q?VTS-W	
<i>P. drummondii</i> (Wils.) J.H. Willis	..	○	○	○	○	○	○	○	★	○	○	○	○	○		
<i>P. starckeana</i> (Hedw.) C. Muell.	..	○	○	○	○	○	○	★	○	○	○	○	○	○	VSA	NZ, N Afr, Eur, As, N Amer
<i>P. truncata</i> (Hedw.) B.S.G.	..	○	○	★	○	○	○	●	○	○	○	○	○	○	VTSA	Cosmop
PTERYGONEURUM Jur.																
<i>P. kemsleyi</i> J.H. Willis	..	○	○	○	○	○	○	○	○	○	○	○	○	○	VSW	
<i>P. ovatum</i> (Hedw.) Dix.	..	○	○	○	○	○	○	○	○	○	○	○	○	★	VSW	Eur, N Afr, As, N Amer
TETRAPTERUM Hampe ex Jaeg.																
<i>T. cylindricum</i> (Tayl.) Jaeg. [<i>Astomum cylindricum</i> (Tayl.) Mitt.]	..	○	○	○	○	●	★	★	●	●	●	★	○	○	QVTYS-WA	
<i>T. sullivanii</i> (C. Muell.) Broth. [<i>Phascum sullivanii</i> C. Muell. — known only from type in BM]	..	○	★	○	○	○	○	○	○	○	○	○	○	○		
TORTELLA (Lindb.) Limpr.																
<i>T. cirrhata</i> Broth. [<i>T. subflavovirens</i> Broth. & Watts]	..	●	○	○	●	○	○	○	○	○	●	○	○	○	VSW	
<i>T. knightii</i> (Mitt.) Broth.	..	○	●	●	○	○	○	●	○	●	○	○	○	○	VT	NZ
<i>T. nano-tortuosa</i> (C. Muell.) Watts & Whitel.	..	○	★	★	○	○	○	○	○	○	○	○	○	○		
<i>T. novae-valesiae</i> Broth.	..	○	★	★	○	○	○	○	○	○	○	○	○	○		
TORTULA Hedw.																
<i>T. evanescens</i> Broth.	..	○	○	○	○	○	○	○	○	○	●	○	○	○		
<i>T. laevipila</i> (Brid.) Schwaegr.	..	○	○	○	○	○	○	●	○	●	○	○	○	○	VTSWA	Cosmop
<i>T. muralis</i> Hedw. [<i>T. austro-muralis</i> (C. Muell.) Broth. ex Par., <i>T. melbourneana</i> (C. Muell.) Broth.]	..	○	★	●	○	★	●	●	○	○	○	○	○	○		Cosmop
<i>T. oleaginosa</i> Stone	..	○	○	○	○	○	○	○	○	○	●	○	○	○	VSW	
<i>T. pagorum</i> (Milde) de Not. [<i>T. baileyi</i> auct. non Broth.]	..	●	●	●	★	●	○	○	○	○	●	★	○	○	QVTSW	Eur, N Amer
<i>T. panduraefolia</i> (C. Muell. & Hampe) Broth.	..	○	○	●	○	★	★	★	★	★	○	★	○	○		
<i>T. papillosa</i> Wils.	..	○	○	★	★	★	★	●	○	●	●	★	○	○	QVTS-WA	Cosmop

<i>T. princeps</i> De Not. [†]	○ ○ ★ ★ ● ● ● ● ★ ● ○ ○ ★ ○ ★	VTSWA	Cosmop
<i>T. readeri</i> (C. Muell.) Broth.	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	VA	NZ, S Amer, Subant I
<i>T. rubra</i> Mitt.	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	VA	NZ, S Amer, Subant I
<i>T. streptopogoniacea</i> (C. Muell.) Broth.	○ ★ ○ ○ ○ ○ ● ○ ★ ○ ○ ○ ○ ○ ○ ○ ○		
<i>T. subbrunnea</i> Broth. & Watts	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○		
<i>T. vesiculosa</i> (C. Muell.) Broth.	○ ○ ○ ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○		
[Previous record not substantiated: <i>T. crawfordii</i> (Par.) Watts in Watts & Whitel., <i>T. asperifolia</i> Broth., <i>T. parramattana</i> Mitt., <i>Barbula parramattana</i> (Mitt.) Kindb.]	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○		

TRACHYCARPIDIUM Broth.

<i>T. brisbanicum</i> (C. Muell.) Stone	○ ★ ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ Q
[<i>Astomum brisbanicum</i> (C. Muell.) Broth., <i>A. wattsii</i> Broth. ex Roth]	

TRICHOSTOMUM Bruch.

<i>T. aristatum</i> Broth.	○ ★ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○
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TRIDONTIUM Hook. f. in Hook.

<i>T. tasmanicum</i> Hook. f.	○ ○ ○ ○ ○ ○ ○ ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ VT NZ, As
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TRIQUETRELLA C. Muell.

<i>T. papillata</i> (Hook. f. & Wils.) Broth.	○ ○ ● ★ ★ ● ● ★ ● ○ ○ ○ ○ ○ ○ ○ ○ ○ VTSWA NZ
<i>T. richardsiae</i> C. Muell.	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ S

WEISSIA Hedw.

<i>W. controversa</i> Hedw.	● ● ● ● ● ● ● ● ★ ● ★ ★ ○ ★ ○ ○ QVTYS- Cosmop
[<i>W. flavipes</i> Hook. f. & Wils.,	A
<i>W. truncata</i> C. Muell. nom. nud.]	
<i>W. novae-valesiae</i> (Broth. ex Roth) Stone	○ ○ ● ○ ○ ○ ★ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ A
[<i>Astomum novae-valesiae</i> Broth. ex Roth]	
<i>W. perpusilla</i> (C. Muell.) Stone	○ ○ ★ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○

[†]NSW collections of this species examined by Kramer (pers.comm.) include *T. andersonii*, *T. antarctica*, *T. rubella*, and *T. leucostega* as well as *T. princeps*.

14A. BRYOBARTRAMIACEAE	L H I	C			T			WS			WP		FWP		EXTRA NSW	EXTRA AUST
		N	C	S	N	C	S	N	C	S	N	S	N	S		
BRYOBARTRAMIA Sainsb.		○	○	○	○	○	○	●	○	●	●	○	○	○	VSWA	S Afr
<i>B. novae-valesiae</i> (Broth.) Stone		○	○	○	○	○	○	○	○	○	○	○	○	○		
[<i>Trachycarpidium novae-valesiae</i> Broth., <i>Bryobartramia robbinsi</i> Sainsb.]																
15. GRIMMIACEAE																
GRIMMIA Hedw.																
<i>G. donniana</i> Sm.		○	○	○	○	○	○	●	○	○	○	○	○	○	A	Cosmop
[<i>G. alpestris</i> Sommerf.]																
<i>G. laevigata</i> (Brid.) Brid.		●	●	●	★	●	●	●	●	●	●	○	○	●	QVTS-WA	Cosmop
[<i>G. leiocarpa</i> Tayl., <i>G. leucophaea</i> Grev., <i>G. campestris</i> Burchell ex Hook.]																
<i>G. obtusata</i> (C. Muell. & Hampe) Jaeg.		○	○	○	○	○	○	★	○	○	○	○	○	○		NZ
<i>G. pulvinata</i> (Hedw.) Sm. var. <i>africana</i>																
(Hedw.) Hook. f. & Wils.		●	●	●	★	●	●	●	●	●	●	○	★	○	QVTS-WA	Cosmop
[<i>G. cygnicolla</i> Tayl., <i>G. pulvinata</i> (Hedw.) Sm. var. <i>obtusa</i> (Brid.) Hueb.]																
<i>G. trichophylla</i> Grev.		○	○	○	○	○	○	★	●	○	○	★	○	○	QVTS-WA	Cosmop
RACOMITRIUM Brid.																
<i>R. aciculum</i> Dix.		★	○	○	○	○	○	○	○	○	○	○	○	○		
[specimen in E (Dixon 1950)]																
<i>R. amoenum</i> (Broth.) Par.		○	○	○	○	○	○	●	○	○	○	○	○	○	V	
<i>R. crispulum</i> (Hook. f. & Wils.) Hook. f. &																
Wils.																
[<i>R. sullivanii</i> (C. Muell.) Broth., <i>R. symphodon</i> Jaeg.]		○	○	○	○	●	★	●	○	○	○	○	○	○	QVTWA	S Hemis, C Amer
<i>R. lanuginosum</i> (Hedw.) Brid. var.																
pruinosa Wils.		○	○	○	○	○	○	○	●	○	○	○	○	○	VT	NZ, S Afr
<i>R. pseudo-patens</i> (C. Muell.) Par.		○	○	○	○	○	○	○	●	○	○	○	○	○		
SCHISTIDIUM Brid.																
<i>S. apocarpum</i> (Hedw.) B.S.G.		○	★	●	●	★	●	●	●	★	★	○	○	○	QVTS-WA	Cosmop
[<i>Grimmia apocarpa</i> Hedw. nom. inval., <i>G. mutica</i> Hampe]																
<i>S. rivulare</i> (Brid.) Podp. ssp.		○	○	○	○	○	○	●	★	○	○	○	○	○		
rivulare																
[<i>Grimmia flexifolia</i> Hampe — specimen in																
BM (Bremer 1980)]															NZ, N Hemis	

16. GIGASPERMACEAE

GIGASPERMUM Lindb.

<i>G. repens</i> (Hook.) Lindb.	○ ○ ● ● ● ● ● ● ○ ● ● ● ○	VTSW- NZ, S Afr A
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18. EPHEMERACEAE

EPHEMERUM Hampe

<i>E. cristatum</i> (Hook. f. & Wils.) C. Muell.	..	○ ○ ● ○ ○ ○ ○ ○ ● ○ ○ ○ ★ ○	VTSW
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19. FUNARIACEAE

FUNARIA Hedw.

<i>F. apophysata</i> (Tayl.) Broth.	○ ○ ● ○ ★ ★ ★ ● ● ● ○ ○ ○ ★ ○	QVTYS- NZ WA
[<i>Entosthodon apophysata</i> (Tayl.) Mitt.]			V
<i>F. aristata</i> Broth.	.....	○ ● ● ● ● ● ★ ○ ● ● ● ○ ○ ○ ○ ○
[<i>Entosthodon aristatus</i> (Broth.) Par.]			
<i>F. cuspidata</i> Hook. f. & Wils.	.....	○ ● ● ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	QVTYSW NZ
<i>F. glabra</i> Tayl.	.....	○ ● ● ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	QVTYS- NZ, WA N Caled
[<i>F. crispula</i> Hook. f. & Wils.]			
<i>F. tasmanica</i> C. Muell. & Hampe,			
<i>F. subnuda</i> Tayl.]			
<i>F. gracilis</i> (Hook. f. & Wils.) Broth.	..	○ ★ ● ○ ○ ○ ○ ● ● ○ ○ ○ ○ ★ ○	VTSW- NZ A
[<i>Entosthodon gracilis</i> Hook. f. & Wils.]			
<i>F. helmsii</i> Broth. in Geh.	..	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	VTSW
<i>F. hygrometrica</i> Hedw.	..	● ● ● ● ● ● ● ● ● ○ ○ ○ ○ ○ ○	QVTYS- Cosmop WA
[<i>F. calvescens</i> Schwaegr.,			
<i>F. hygrometrica</i> Hedw. var. <i>sphaerocarpa</i> C. Muell., <i>F. sphaerocarpa</i> C. Muell.]			
<i>F. smithurstii</i> Broth. & Geh.	..	○ ● ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	QV
[<i>Entosthodon smithhurstii</i> (Broth. & Geh.) Par.]			
<i>F. squarrifolia</i> Broth.	..	○ ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	
[<i>Entosthodon squarrifolius</i> (Broth.) Par.]			

GONIOMITRIUM Hook. f. & Wils.

<i>G. acuminatum</i> Hook. & Wils.	.....	○ ○ ● ○ ○ ○ ○ ● ○ ○ ○ ○ ○ ○	QYSWA NZ
<i>G. enerve</i> Hook. & Wils.	.....	○ ○ ● ○ ★ ○ ○ ○ ○ ○ ○ ○ ○ ○	VSWA

19. FUNARIACEAE (cont'd)	L	C			T			WS			WP		FWP		EXTRA NSW	EXTRA AUST
	H	I	N	C	S	N	C	S	N	C	S	N	S	N	S	

PHYSCOMITRELLA B.S.G.*Physcomitrella readeri* (C. Muell.) Stone &

Scott

[*P. patens* (Hedw.) B.S.G. var *readeri*
(C. Muell.) Tan]**PHYSCOMITRIUM (Brid.) Fuernr.***P. brisbanicum* C. Muell.*P. integrifolium* Hampe & C. Muell.*P. pyriforme* Brid.[*P. conicum* Mitt., *P. subserratum* Hampe]

[Previous record not substantiated:

]
P. flaccidum Mitt.]

o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	★	o	VS
o	●	★	o	o	o	o	o	o	o	o	o	o	o	o	o	o	Q
o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	VTA
o	o	●	o	o	o	o	o	o	o	o	o	o	o	o	o	o	NZ
o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	

21. SPLACHNACEAE**SPLACHNOBRYUM C. Muell.***S. wattsii* Broth.

o	o	●	o	o	o	o	o	o	o	o	o	o	o	o	o	o	
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--

TAYLORIA Hook.*T. maidenii* Broth.*T. octoblepharum* (Hook.) Mitt.

o	o	o	o	o	o	o	●	★	o	o	o	o	o	o	o	o	QVTS-WA
o	●	●	●	★	●	●	●	●	o	o	o	o	o	o	o	o	NZ, As, ?NG
o	o	o	o	o	o	?	o	o	o	o	o	o	o	o	o	o	NZ

T. purpurascens (Hook. & Wils.) Broth.**24. BRYACEAE****BRACHYMIENIUM Schwaegr.***B. coarctatum* Bosch. & Lac.*B. exile* (Dozy & Molk.) Bosch. & Lac.

o	★	●	o	o	o	o	★	o	o	o	o	o	o	o	o	TA	NZ
o	o	o	★	o	o	o	★	o	o	o	o	o	o	o	o	A	As, Oc, Malesia
o	o	●	o	o	o	o	★	o	o	o	o	o	o	o	o	QVTS-WA	NZ

B. preissianum (Hampe) Jaeg.[*B. chloroblastum* Watts & Whitel.*nom. nud.*, *B. pilosithecium* Watts & Whitel.*nom. nud.*]

BRYUM Hedg.																			
<i>B. aeruginosum</i> C. Muell.	○	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	QSW
<i>B. albo-limbatum</i> (Hampe) Jaeg.	○	○	★	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	VA
<i>B. cf. altisetum</i> C. Muell.	○	○	○	○	○	●	○	●	○	○	●	○	○	○	○	○	○	○	QVTYS-
<i>B. argenteum</i> Hedw.	●	●	★	★	●	●	●	●	●	●	●	●	●	●	●	●	●	●	WA Cosmop
<i>B. argenteum</i> Hedw. var. <i>lanatum</i> (P. Beauv.) Hampe	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Cosmop
<i>B. argenteum</i> Hedw. var. <i>niveum</i> Wils.	●	○	○	★	○	○	○	●	○	○	○	○	○	○	○	○	○	○	T
<i>B. australe</i> Hampe.	○	○	★	○	○	○	○	●	○	○	○	○	○	○	○	○	○	○	VTA NZ
[<i>B. appressifolium</i> Broth.]																			
<i>B. bateae</i> C. Muell.	○	○	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	QVTYSW NZ, Eur, S Amer
<i>B. billardieri</i> Schwaegr. var. <i>billardieri</i>	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
[<i>B. abruptinervium</i> C. Muell., <i>B. brachyaris</i> C. Muell. in Mitt. nom. nud., <i>B. breviramulosum</i> (Hampe) Mitt., <i>B. brunneidens</i> , C. Muell., <i>B. crenatidens</i> C. Muell. nom. nud., <i>B. crispatum</i> (Hampe) Mitt., nom. illeg., <i>B. forsythii</i> Broth., <i>B. globulare</i> Hampe in C. Muell. nom. nud., <i>B. leptothecium</i> Tayl., <i>B. olivaceum</i> (Hampe) Mitt., <i>B. pohliaeopsis</i> C. Muell., <i>B. robustum</i> Hampe, <i>B. rufescens</i> Hook. f. & Wils. nom. illeg., <i>B. subcrispatum</i> C. Muell., <i>B. subtomentosum</i> (Hampe) Mitt.]																			
<i>B. blandum</i> Hook. f. & Wils.	○	○	○	○	○	○	○	●	●	○	○	○	○	○	○	○	○	○	VTA NZ, Campbell I
[<i>B. oblongifolium</i> C. Muell.]																			
<i>B. caespiticium</i> Hedw.	○	○	★	○	○	●	●	●	●	○	○	○	○	○	○	○	○	○	VTSA Cosmop
[<i>B. laxirete</i> Broth.]																			
<i>B. calodictyon</i> Broth.	○	○	○	○	○	○	○	●	●	●	●	●	●	●	●	●	●	●	VTSWA NZ, S Amer
<i>B. campylothecium</i> Tayl.	●	○	○	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●	
[<i>B. peraristatum</i> C. Muell., <i>B. howeanum</i> Broth. & Watts, <i>Brachymenium peraristatum</i> (C. Muell.) Kindb.]																			
<i>B. capillare</i> Hedw.	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	QVTYS- Cosmop WA
[<i>B. immarginatum</i> Broth., <i>B. leptothecioides</i> Broth. & Watts nom. nud., <i>B. pusillum</i> Broth. nom. illeg., <i>B. sublonginervium</i> Geh. in Watts & Whitel. nom. nud., <i>B. whiteleggei</i> Broth. nom. nud.]																			
<i>B. capillare</i> Hedw. ssp. <i>torquescens</i> (De Not.) Kindb.	○	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	VS Cosmop
[? <i>B. synicum</i> , C. Muell., <i>B. pyrothecium</i> C. Muell. & Hampe, <i>B. erythropyxis</i> C. Muell.]																			
<i>B. cellulare</i> Hook.	○	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Q
<i>B. chrysoneuron</i> C. Muell.	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	QTWSA NZ, Oc, Eur, As, Afr
[<i>B. leptopelma</i> C. Muell., <i>B. lochoneuron</i> C. Muell., <i>B. microthecium</i> C. Muell., <i>B. suberythrocarpum</i> C. Muell., <i>B. wattsii</i> Broth.]																			

24. BRYACEAE (cont'd)	L H I	C			T			WS			WP		FWP		EXTRA NSW	EXTRA AUST
		N	C	S	N	C	S	N	C	S	N	S	N	S		
BRYUM (cont'd)																
B. coronatum Schwaegr.		●	●	●	★	○	●	★	○	●	○	○	○	○	QWA	Cosmop
[<i>B. subatropurpureum</i> C. Muell.]																
B. crassum Hook. f. & Wils.		○	○	★	○	○	○	○	○	○	○	○	○	○	VT	NZ
[<i>B. austro-alpinum</i> C. Muell.]																
B. creberrimum Tayl.		○	★	★	★	○	★	●	○	★	○	○	○	○	VSW	NZ, N Amer., Eur, As,
[<i>B. affine</i> Lindb. & Arn. nom. illeg., <i>B. tasmanicum</i> Hampe]																
B. cupulatum C. Muell.		○	○	●	○	○	○	○	○	○	○	○	○	○	VTS	
B. dichotomum Hedw.		●	○	●	○	○	●	★	○	○	○	○	○	★	QVTSA	NZ, Amer, Subant I
[<i>B. aequicollum</i> Broth. & Watts, <i>B. brachytheciella</i> C. Muell., <i>B. philonotideum</i> Broth. & Watts, <i>B. pimpamae</i> C. Muell., <i>B. subcupulatum</i> C. Muell. ex Rodw.]																
B. diversinerve Broth. & Watts		●	○	○	○	○	○	○	○	○	○	○	○	○		
B. erythrocarpoides C. Muell. & Hampe		●	●	●	○	○	★	★	●	○	★	○	○	○	QVTSA	NZ, S Afr, Oc
[<i>B. clavatum</i> Hook. f. & Wils., <i>B. curvicollum</i> Mitt., <i>B. filarium</i> Broth., <i>B. kiamae</i> Broth., <i>B. subcurvicollum</i> Broth.]																
B. laevigatum Hook. f. & Wils.		○	★	○	○	○	○	○	●	○	○	★	○	○	VTA	NZ, S Afr, S Amer, Subant I
B. leucocanthum (Hampe) Mitt.		●	○	○	○	○	○	○	○	○	○	○	○	○		
[<i>Rhodobryum leucocanthum</i> Hampe]																
B. limbifolium Broth. & Watts		●	○	○	○	○	○	○	○	○	○	○	○	○		
B. muehlenbeckii B.S.G.		○	○	●	○	○	○	○	★	○	○	○	○	○	A	Cosmop
[<i>B. cheelii</i> Broth.]																
B. nitens Hook.		○	●	★	○	○	★	○	○	○	○	○	○	○	Q	As, Afr, Oc
[<i>B. baileyi</i> Broth., <i>B. pachypomatulum</i> Broth., <i>B. subpachypoma</i> Hampe, <i>B. micropachypoma</i> Broth. nom. nud.]																
B. pachytheca C. Muell.		○	●	●	★	○	★	●	○	●	●	★	●	○	QVTYS-	Cosmop
[<i>B. bicolor</i> Dicks., <i>B. gambierense</i> C. Muell., <i>B. microerythrocarpum</i> C. Muell. & Kindb., <i>B. subaeneum</i> Hampe & C. Muell., <i>B. sullivanii</i> C. Muell.]														WA		
B. cf. pallens Sw.		○	○	○	○	○	○	○	★	○	○	○	○	○	A	S Amer
B. perlimbatum Card.		○	○	○	○	○	○	○	★	○	○	○	○	○		

30. MITTENIACEAE

MITTENIA Lindb.

	○	●	●	●	○	●	●	○	○	○	○	○	○	QVTWA	NZ
[<i>M. rotundifolia</i> (C. Muell.) Par.]															

31. CALOMNIACEAE

CALOMNION Hook. f. & Wils.

	○	○	●	○	○	○	○	○	○	○	○	○	○		NZ
[<i>C. laetum</i> Hook. f. & Wils. <i>nom. illeg.</i>]															

32. RHIZOGONIACEAE

GONIOBRYUM Lindb.

	○	○	○	●	○	○	●	○	○	○	○	○	○	VT	NZ, Oc, S Amer
[<i>G. pellucidum</i> (Mitt.) Broth.]															

HYMENODON Hook. f. & Wils.

	○	○	★	○	○	○	★	○	○	○	○	○	○	QVT	NZ, Oc
[<i>H. pilifer</i> Hook. f. & Wils.]															

LEPTOTHECA Schwaegr.†

	○	○	○	●	●	●	●	○	★	○	○	○	○	QVTA	NZ, SAfr, S Amer
[<i>L. gaudichaudii</i> Schwaegr. var. <i>gaudichaudii</i>]															

MESOCHAETE Lindb.

	●	●	●	●	●	●	●	○	○	○	○	○	○	QV	NZ, SE As
[<i>M. undulata</i> Lindb.]															

PYRRHOBRYUM Mitt.

	○	●	★	●	●	●	●	○	○	○	○	○	○	QVTA	NZ, S Amer
[<i>Rhizogonium mnioides</i> (Hook.) Wils. in Hook.]															

P. parrattense (C. Muell.) Manuel

	●	●	●	●	●	●	●	○	○	○	○	○	○	QVT	Norfolk I
[<i>Rhizogonium parrattense</i> (C. Muell.) Reichdt.]															

P. spiniforme (Hedw.) Manuel

	○	●	●	●	●	○	●	○	○	○	○	○	○	Q	As, Malesia
[<i>Rhizogonium spiniforme</i> Hedw.]															

† See Churchill & Buck (1982).

32. RHIZOGONIACEAE (cont'd)	L H I	C			T			WS			WP		FWP		EXTRA NSW	EXTRA AUST
		N	C	S	N	C	S	N	C	S	N	S	N	S		

RHIZOGONIUM Brid.

R. bifarium (Hook.) Schimp. ○ ○ ● ○ ★ ○ ● ★ ○ ○ ○ ○ ○ ○ ○ VTA NZ
R. distichum (Sw.) Brid. ○ ● ● ★ ○ ○ ● ○ ○ ○ ○ ○ ○ ○ ○ QVTA As, NZ, Oc

[*R. graeffeanum* (C. Muell.) Jaeg.,
R. geheebei C. Muell.]

R. novae-hollandiae (Brid.) Brid.

R. pennatum Hook. f. & Wils. var. **aristatum**
(Hampe) Dix.

33. HYPNODENDRACEAE

BRAITHWAITEA Lindb.

B. sulcata (Hook.) Jaeg. ★ ● ● ● ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ QV NZ, Oc,
N Caled

HYPNODENDRON (C. Muell.) Lindb. ex Mitt.

H. colensoi (Hook. f. & Wils.) Mitt.

[Known only from a specimen in NY (Touw 1971)]

H. comosum (Labill.) Mitt

[*Mniodesmum comosum* (Labill.) Lindb.]
H. spininervium (Hook.) Jaeg. ssp. *archeri*

(Mitt.) Touw

[*H. arcuatum* Hedw. emend. Mitt. pro parte]
H. vitiense Mitt. ssp. ***australe*** Touw ..
[*H. whiteleggei* C. Muell. ex Burges nom. nud.
H. arcuatum non Hedw.]

34. AULACOMNIACEAE

AULACOMNIUM Schwaegr.

A. palustre (Hedw.) Schwaegr. ○ ● ○ ○ ○ ○ ● ○ ○ ○ ○ ○ ○ ○ VTA Cosmop

35. MEESIACEAE

MEESIA Hedw.

M. muelleri C. Muell. & Hampe o o o o o o ● o o o o o o o o VA NZ
M. triquetra (Hook. & Tayl.) Aongstr. o o o o o o ● o o o o o o o o VA N Hemis

37. BARTRAMIACEAE

BARTRAMIA Hedw.

B. halliana Hedw. o o o o o o • ★ o o o o o o VT NZ,
[B. mossmanniana C. Muell.]
B. hampei (Mitt.) Catchpole o o o o ★ o • o o o o o o VTSWA Cosmop

B. hampei (Mitt.) Catcheside
[*Bartramidula hampei* Mitt.,
Bartramia erecta (Hampe) Broth. nom. illeg.]

B. stricta Brid.
[*B. strictifolia* Tayl.]
(not the same as N Hemis sp. — under review)

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BREUTELIA (B.S.G.) Schimp.
B. affinis (Hook.) Mitt. ○ ○ ● ★ ● ● ● ● ● ○ ○ ★ ○ QVTS-
^{W/A} *B. communata* Jaen nom illeg. *Philonotis*

[*B. commutata* Jaeg. nom. illeg., *Philonotis affinis* (Hook.) Jaeg.]

[*B. divaricata* (Mitt.) Mitt., S Amer,
B. fusco-aurea Broth., Subantl]

B. sieberi (Hornschr. ex C. Muell.) Mitt.]
B. pseudo-philonotis (C. Muell.) Watts & Whitel.

[Previous record not substantiated: *B. baauerlenii* (C. Muell.) Watts & Whitel.]

B. baculeensis (C. Muell.) Watts & Whitel.,
B. leptodontoides (C. Muell.) Watts & Whitel.,
B. lonchopelma (C. Muell.) Watts & Whitel.]

CONOSTOMUM Swartz

[*C. australe* Sw.]

37. BARTRAMIACEAE (cont'd)	L H I	C			T			WS			WP		FWP		EXTRA NSW	EXTRA AUST
		N	C	S	N	C	S	N	C	S	N	S	N	S		

PHILONOTIS Brid.

<i>P. austro-falcata</i> Broth. & Watts	..	○	○	○	○	○	○	★	○	○	○	○	○	○	○	Q
<i>P. dicranellacea</i> (C. Muell.) Watts & Whitel.	..	○	●	●	○	○	○	○	●	○	○	○	○	○	○	Oc
<i>P. jardinii</i> (Besch.) Par.	..	●	○	○	○	○	○	○	○	○	○	○	○	○	○	
<i>P. pseudomollis</i> (C. Muell.) Jaeg.	..	○	●	●	○	○	○	○	○	●	○	○	○	○	○	VTSWA
<i>P. scabrifolia</i> (Hook. f. & Wils.) Braithw.	..	○	○	○	○	●	●	●	○	●	○	○	○	○	○	NZ, Oc, S
[<i>P. appressa</i> (Hook. f. & Wils.) Mitt., <i>P. remotifolia</i> (Hook. f. & Wils.) Jaeg.]																Afr, C&S Amer, Subant I
<i>P. slateri</i> (Hampe) Jaeg.	..	○	●	★	○	○	○	○	○	○	○	○	○	○	○	Q
<i>P. tenuis</i> (Tayl.) Reichdt.	..	●	●	●	○	○	●	●	○	○	○	○	●	★	○	QVTYS- WA
[<i>P. fertilis</i> (Mitt.) Mitt., <i>P. pseudomollis</i> (C. Muell.) Jaeg.]																NZ, Afr
<i>P. tortifolia</i> (C. Muell.) Watts & Whitel.	..	○	●	★	○	●	●	○	○	○	○	○	○	○	○	Q

38. SPIRIDENTACEAE**SPIRIDENS** Nees

<i>S. vieillardii</i> Schimp.	..	●	○	○	○	○	○	○	○	○	○	○	○	○	○	Malesia, Oc
-------------------------------	----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----------------

40. ERPODIACEAE**AULACOPILUM** Wils.

<i>A. glaucum</i> Wils.	..	○	●	○	○	○	○	○	○	○	○	○	○	○	○	Q
<i>A. Hodgkinsoniae</i> (Hampe & C. Muell.) Broth.	..	○	●	○	○	○	○	○	○	○	○	○	○	○	○	NZ

41. PTYCHOMITRIACEAE†**PTYCHOMITRUM** Fuernr.

<i>P. australe</i> (Hampe) Jaeg.	..	●	●	○	●	●	●	●	●	●	○	○	★	○	○	QVTS- WA
[<i>P. adamsenii</i> (Mitt.) Jaeg., <i>Glyphomitrium adamsenii</i> Mitt., <i>Brachysteleum australe</i> (Hampe) Jaeg.]																NZ

† Transferred to Grimmiaceae by Churchill (1982).

P. laxifolium (C. Muell.) Par. [<i>Brachysteuem laxifolium</i> C. Muell.]	○ ★ ● ● ★ ○ ○ ★ ○ ○ ○ ○ ○ ○ ○ ○		
P. mittenii Jaeg. [<i>P. serratum</i> (Mitt.) Hook. f. & Wils. nom. illeg.]	○ ○ ○ ● ○ ○ ○ ● ○ ○ ○ ○ ○ ○ ○ ○ VT		
P. muelleri (Mitt.) Jaeg. [<i>P. commutatum</i> (C. Muell.) Par., <i>Glyphomitrium muelleri</i> (C. Muell.) Broth., <i>G. howeanum</i> (Hampe) Broth.]	● ● ● ● ● ● ○ ● ○ ○ ○ ○ ○ ○ ○ ○ QV		

42. ORTHOTRICHACEAE

AMPHIDIUM Schimp.

A. cyathicarpum (Mont.) Broth.	○ ○ ○ ○ ○ ★ ○ ● ○ ○ ○ ○ ○ ○ ○ ○ VTSW	NZ, Afr. S Amer, Oc
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MACROCOMA (C. Muell.) Grout

M. tenue (Hook. & Grev.) Vitt ssp. <i>tenue</i> [<i>Macromitrium eucalyptorum</i> C. Muell. & Hampe, <i>M. microphyllum</i> (Hook. & Grev.) Brid., <i>M. geheebei</i> C. Muell., <i>M. novae-valesiae</i> C. Muell.]	○ ● ● ● ● ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ QVTS	NZ, SE As
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MACROMITRIUM Brid.†

M. archeri Mitt. in Hook. f. [<i>M. pusillum</i> Mitt.]	○ ● ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ QVT	
M. aurescens Hampe	○ ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ Q	N Caled
M. brachypodium C. Muell. [<i>M. brevisetaceum</i> Hampe]	● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ Q	N Caled
M. breviculae (Besch.) Broth. [<i>M. subbreviculae</i> Broth. & Watts, <i>M. wattsii</i> Broth.]	● ● ● ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ Q	NZ, Norfolk I, N Caled
M. caloblastoides C. Muell. [<i>M. dimorphum</i> C. Muell.]	○ ● ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ Q	
M. diaphanum C. Muell. [<i>M. circinclidum</i> C. Muell.]	○ ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ Q	
M. exsertum Broth.	○ ● ● ● ● ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ Q	
M. hemitrichodes Schwaegr.	○ ● ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ QV	
M. hortonae Vitt & Ramsay (ms)‡	○ ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ Q	

† Revision by Vitt & Ramsay (manuscript) — only synonyms applicable to NSW collections are included except when clarification with an Australian used name is needed.

‡ Manuscript names, nov. sp. or ssp.

42. ORTHOTRICHACEAE (cont'd)	L H I	C			T			WS			WP		FWP		EXTRA NSW	EXTRA AUST
		N	C	S	N	C	S	N	C	S	N	S	N	S		
MACROMITRIUM (cont'd)																
<i>M. involutifolium</i> (Hook. & Grev.) Schwaegr. <i>sensu lato</i>		○	●	●	●	●	●	○	○	○	○	○	○	○	QT	
[<i>M. daemelii</i> C. Muell.]																
<i>M. malacoblastum</i> C. Muell.																
<i>M. involutifolium</i> (Hook. & Grev.) Schwaegr. ssp. <i>involutifolium</i> ‡		○	●	●	○	●	●	○	○	○	○	○	○	○	Q	N Caled
<i>M. involutifolium</i> (Hook. & Grev.) Schwaegr. ssp. <i>ptychomitrioides</i> (Besch.) Vitt & Ramsay (ms)		○	●	●	●	●	●	●	○	○	○	○	○	○	Q	N Caled
[<i>M. carinatum</i> Mitt.]																
<i>M. leratii</i> Broth.		★	●	★	★	○	○	○	○	○	○	○	○	○	Q	N Caled
<i>M. ligulaefolium</i> Broth.		○	●	●	○	●	●	●	○	○	○	○	○	○	QVTA	NZ, N Caled
[<i>M. ligulatum</i> C. Muell., <i>M. woollsonianum</i> C. Muell.]																
<i>M. ligulare</i> Mitt.		○	●	●	●	●	●	○	○	○	○	○	○	○	QVA	NZ
[<i>M. asperulum</i> Mitt., <i>M. weissioides</i> C. Muell.]																
<i>M. longirostre</i> (Hook.) Schwaegr.		○	○	★	○	○	○	○	○	○	○	○	○	○	VT	NZ, Subant I, S Amer
[<i>M. rodwayi</i> Dix. in Weym. & Rodw.]																
<i>M. microstomum</i> (Hook. & Grev.) Schwaegr.		○	●	●	●	●	●	●	○	○	○	○	○	○	QVT	NZ, Japan, Hawaii, Java, Pac I
[<i>M. prolixum</i> Bosw., <i>M. scottiae</i> C. Muell., <i>M. tasmanicum</i> Broth., <i>M. weymouthii</i> Broth.]																
<i>M. peraristatum</i> Broth.		●	○	○	○	○	○	○	○	○	○	○	○	○	Q	
<i>M. repandum</i> C. Muell.		○	●	●	●	○	○	○	○	○	○	○	○	○		
[<i>M. pugionifolium</i> C. Muell., <i>M. whiteleggei</i> Broth. & Geh.]																
<i>M. stoneae</i> Vitt & Ramsay (ms)‡		○	●	○	○	●	○	○	○	○	○	○	○	○	Q	

‡ Manuscript names, nov. sp. or ssp.

ORTHOTRICHUM Hedw. [†]																		
<i>O. cupulatum</i> Hoffm. ex Brid. var. <i>cupulatum</i>	○	○	○	○	○	○	○	●	○	○	○	○	○	○	○	○	VA	Eur, As, Afr, N Amer
<i>O. hortense</i> Bosw.	○	○	○	○	○	○	○	●	○	○	○	○	○	○	○	○	V	NZ
<i>O. longithecum</i> R. Br. ter.	○	○	○	○	○	○	○	●	○	●	●	○	○	○	○	○	VA	NZ
[<i>O. acrolepharis</i> C. Muell.]																		
<i>O. rupestre</i> Schleich. ex Schwaegr. var.																		Cosmop
<i>rupestre</i>	○	○	○	○	○	○	○	●	○	○	●	○	○	○	○	○	VTA	
[<i>O. sullivani</i> C. Muell.]																		
<i>O. tasmanicum</i> Hook. f. & Wils. var.																		
<i>tasmanicum</i>	○	○	●	●	○	●	●	●	○	○	○	○	○	○	○	○	QVTSA	NZ
[<i>O. encalyptaceum</i> C. Muell., <i>O. laterale</i> Hampe, <i>O. campbelliae</i> Watts & Whitel.]																		
SCHLOTHEIMIA Brid.																		
<i>S. brownii</i> Schwaegr.	○	●	●	●	●	○	●	○	○	○	○	○	○	○	○	○	QV	NZ
[<i>S. baileyi</i> Broth.]																		
<i>S. funiformis</i> Tayl. ex Dix.	○	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○		
ZYGODON Hook. & Tayl.																		
<i>Z. hookeri</i> Hampe	○	○	○	○	○	●	○	●	○	○	○	○	○	○	○	○	VTS	NZ
<i>Z. intermedius</i> B.S.G.	○	○	●	○	○	○	●	●	○	○	○	●	○	○	○	○	QVTWA	S Hemis,
[<i>Z. brownii</i> Schwaegr.]																		As
<i>Z. menziesii</i> (Schwaegr.) Arnott	○	○	○	○	○	○	○	●	○	○	○	○	○	○	○	○	VTSWA	NZ, S Amer

44. RACOPILACEAE

RACOPILUM P. Beauv. [‡]																		
<i>R. cuspidigerum</i> (Schwaegr.) Aongst. var.	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Oc	
<i>cuspidigerum</i>																		
[<i>R. pacificum</i> Besch.]																		
<i>R. cuspidigerum</i> (Schwaegr.) Aongst. var.																		
<i>convolutaceum</i> (C. Muell.) Zant. &																		
Dijkstra	●	●	●	●	●	●	●	●	○	●	○	○	○	○	○	○	QVTS- WA	NZ
[<i>R. convolutaeum</i> (C. Muell.) Reichdt.,																		
<i>R. strumiferum</i> auct. non (C. Muell.) Mitt. as																		
in NSW]																		

† Determined by J. Lewinsky (in press).

‡ Based on studies by van Zanten & Dijksta (unpubl.).

51. PTYCHOMNIACEAE

57. PTEROBRYACEAE

58. METEORIACEAE	L H I	C			T			WS			WP		FWP		EXTRA NSW	EXTRA AUST
		N	C	S	N	C	S	N	C	S	N	S	N	S		
BARBELLA Fleisch.																
B. enervis (Thwait. & Mitt.) Fleisch. [<i>Meteoriump trichophoroides</i> (C. Muell.) Mitt.]		●	●	○	○	○	○	○	○	○	○	○	○	○	Q	As, Oc
PAPILLARIA (C. Muell.) C. Muell.																
P. amblyacis (C. Muell.) Jaeg. [<i>Meteoriump amblyacis</i> (C. Muell.) Mitt.]		○	●	●	★	●	●	●	○	★	○	○	○	○	Q	NZ, Oc
P. crocea (Hampe) Jaeg. [<i>Meteoriump kermadecense</i> (C. Muell.) Mitt., <i>P. kermadecensis</i> (C. Muell.) Jaeg., <i>Trachypus hornschuchii</i> Mitt.]		○	●	●	●	○	●	●	★	○	○	○	○	○	QVT	NZ, Oc
P. flavolimbata (C. Muell. & Hampe) Jaeg. [<i>P. cerina</i> (Hook. f. & Wils.) Par.]		○	●	●	●	●	●	●	○	○	○	○	○	○	QVT	NZ
P. flexicaulis (Wils.) Jaeg. [<i>P. filipendula</i> (Hook. f. & Wils.) Jaeg., <i>P. scottiae</i> (C. Muell.) Par., <i>Cryphaea novae-</i> <i>valesiae</i> C. Muell. nom. nud.]		○	●	●	★	★	●	●	○	★	○	○	○	○	QT	As, NZ, S Amer
P. intricata (Mitt.) C. Muell. & Broth. [<i>Meteoriump intricatum</i> Mitt.]		○	●	○	○	○	○	○	○	○	○	○	○	○		Oc
P. nitens (Hook. f. & Wils.) Sainsb. [<i>P. nitidiuscula</i> Broth.]		○	●	●	○	○	★	○	○	○	○	○	○	○	QVT	NZ
PILOTRICHELLA (C. Muell.) Besch.																
P. dimorpha (C. Muell.) Jaeg. [<i>Meteoriump dimorphum</i> (C. Muell.) Mitt.]			○	★	○	○	○	★	○	○	○	○	○	○		
WEYMOUTHIA Broth.																
W. mollis (Hedw.) Broth.		●	○	○	○	○	○	★	○	○	○	○	○	○	VT	NZ, S Amer
59. PHYLLOGONIACEAE†																
CATAGONIUM C. Muell. ex Broth.																
C. politum (Hook. f. & Wils.) Dus. ex Broth.		●	★	○	○	★	★	●	○	○	○	○	○	○	QVTA	Afr, NZ, S Amer
ORTHORRHYNCHIUM Reichdt.																
O. elegans (Hook. f. & Wils.) Reichdt. [<i>O. cymbifolioides</i> C. Muell., <i>O. hampeanum</i> C. Muell.]		●	●	●	○	○	○	○	○	○	○	○	○	○	Q	SE As, NZ, Oc

†See Lin (1983) for new classification.

60. NECKERACEAE

CALYPTOTHECIUM Mitt.

<i>C. acutum</i> (Mitt.) Broth.	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○	Q	
<i>C. cuspidatum</i> (Okam.) Nog.	○	?	○	○	○	○	○	○	○	○	○	○	○	○	○		As S Amer
<i>C. humile</i> (Mitt.) Broth.	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○		

LEPTODON Moh.

<i>L. smithii</i> (Hedw.) Web. & Mohr. [<i>L. australis</i> C. Muell.]	○	●	●	●	○	●	●	★	●	●	○	○	○	○	○	QVA	Cosmop
--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	-----	--------

NECKERA Hedw.

<i>N. pennata</i> Hedw. [<i>N. hymenodontoides</i> C. Muell.]	○	●	●	●	●	●	●	○	○	○	○	○	○	○	○	QVT	Cosmop
<i>N. leichhardtii</i> Hampe [Known only from specimen in BM.]	○	★	○	○	○	○	○	○	○	○	○	○	○	○	○		

THAMNOBRYUM Nieuwl.

<i>T. pandum</i> (Hook. f. & Wils.) Stone & Scott [<i>Thamnium pandum</i> (Hook. f. & Wils.) Jaeg., <i>Thamnium esflagellare</i> Aongstr.]	○	●	●	●	○	●	○	○	○	○	○	○	○	○	○	Q	NZ, SE As
<i>T. pumilum</i> (Hook. f. & Wils.) Nieuwl. [<i>Thamnium pumilum</i> (Hook. f. & Wils.) Kindb., <i>Thamnium gracillimum</i> (Hampe) Broth. & Watts, <i>Homalia acuminata</i> C. Muell.]	★	●	●	●	○	○	●	○	○	○	○	○	○	○	○	QVTA	NZ, Oc, S Amer
[Previous record not substantiated: <i>T. novae-valesiae</i> Kindb.]	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		

61. LEMBOPHYLLACEAE

CAMPTOCHAETE Reichdt.

<i>C. arbuscula</i> (Sm.) Reichdt. [<i>C. ramulosa</i> (Mitt.) Jaeg., <i>Porotrichum arbusculum</i> (Sm.) Mitt.]	●	●	●	●	○	●	●	○	○	○	○	○	○	○	○	QVTA	NZ, As, Oc
<i>C. arbuscula</i> (Sm.) Reichdt. var. <i>deflexa</i> (Wils.) Dix.	●	★	○	○	○	○	○	○	○	○	○	○	○	○	○		NZ, Oc
[<i>C. brisbanica</i> C. Muell. nom. nud. in synon., <i>C. deflexa</i> (Wils.) Jaeg.]																	
<i>C. excavata</i> (Tayl.) Jaeg.	○	●	●	●	●	○	○	○	○	○	○	○	○	○	○	QVT	
<i>C. gracilis</i> (Hook. f. & Wils.) Par. [<i>Lembophyllum brisbanicum</i> C. Muell. nom. nud.]	○	●	●	●	●	○	○	●	○	○	○	○	○	○	○	QVT	NZ, S Amer
<i>C. leichhardtii</i> (Jaeg.) Broth.	○	●	●	●	○	★	?	○	○	○	○	○	○	○	○	Q	Oc

61. LEMBOPHYLLACEAE (cont'd)	L H I	C			T			WS			WP		FWP		EXTRA NSW	EXTRA AUST
		N	C	S	N	C	S	N	C	S	N	S	N	S		

CAMPTOCHAETE (cont'd)

<i>C. schlosseri</i> (Sendtn.) Broth. ex Par.	..	..	○	★	○	○	○	○	○	○	○	○	○	○	Q	NZ
<i>C. vaga</i> (C. Muell.) Broth.	..	..	●	●	●	●	●	●	★	○	★	○	○	○
[<i>Lembophyllum vagum</i> (C. Muell.) Lindb., <i>Porotrichum vagum</i> (C. Muell.) Mitt.]																

LEMBOPHYLLUM Lind.

<i>L. divulsum</i> (Hook. f. & Wils.) Lindb.	..	..	○	●	○	●	●	●	●	○	○	○	○	○	○	QVTSA	NZ, Subant I
[<i>L. clandestinum</i> (Hook. f. & Wils.) Lindb., <i>Porotrichum clandestinum</i> (Hook. f. & Wils.) Mitt.]																	

62. ECHINODIACEAE

ECHINODIUM Jur.

<i>E. hispidum</i> (Hook. f. & Wils.) Reichdt.	..	..	●	●	○	●	●	○	○	○	○	○	○	○	○	QVT	Oc, NZ
[<i>Sciaromium hispidum</i> (Hook. f. & Wils.) Par., <i>E. arboreum</i> Broth.]																	
<i>E. parvulum</i> Broth. & Watts	..	..	..	..	..	..	..	★	○	○	○	○	○	○	○

65. HOOKERIACEAE

ACHROPHYLLUM Vitt & Crosby

<i>A. dentatum</i> (Hook. f. & Wils.) Vitt & Crosby	..	..	●	●	●	●	●	●	●	○	○	○	○	○	○	QVTSA	NZ, Afr, S Amer, Subant I
[<i>Pterygophyllum dentatum</i> (Hook. f. & Wils.) Dix., <i>P. hepaticaeolum</i> (Hampe & C. Muell.) Jaeg., <i>P. nigellum</i> (Hook. f. & Wils.) Mitt.]																	
<i>A. wattsi</i> (Broth.) Vitt & Crosby	..	..	..	..	..	..	..	..	..	○	○	○	○	○	○
[<i>Pterygophyllum wattsi</i> Broth.]																	

68. HYPOPTERYGIACEAE	L H I	C			T			WS			WP		FWP		EXTRA NSW	EXTRA AUST	
		N	C	S	N	C	S	N	C	S	N	S	N	S			
CYATHOPHORUM P. Beauv.																	
<i>C. bulbosum</i> (Hedw.) C. Muell.	●	●	○	●	●	●	●	○	○	○	○	○	○	○	QVT	NZ, As, Oc	
[<i>C. pennatum</i> (Labill.) Brid., <i>C. pteridoides</i> P. Beauv.]																	
HYPOPTERYGIUM Brid.																	
<i>H. muelleri</i> Hampe	●	●	●	●	●	●	●	○	○	○	○	○	○	○	Q	NZ, As	
[<i>H. scottiae</i> C. Muell.]																	
<i>H. rotulatum</i> (Hedw.) Brid.	●	●	●	●	●	●	●	○	○	○	○	○	○	○	QVTSA	NZ, Oc, S Amer	
[<i>H. didictyon</i> C. Muell., <i>H. novae-seelandiae</i> C. Muell.]																	
LOPIDIUM Hook. f. & Wils.																	
<i>L. concinnum</i> (Hook.) Wils.	○	●	●	●	●	●	●	○	○	○	○	○	○	○	VT	NZ, S Amer	
[<i>L. plumarium</i> (Mitt.) Hampe, <i>Hypopterygium hyalino-limbatum</i> C. Muell. <i>nom. nud.</i> , <i>H. pallens</i> (Hook. f. & Wils.) Mitt.]																	
70. FABRONIACEAE																	
ANACAMPTODON Brid.																	
<i>A. wattsi</i> Broth.	○	★	○	○	○	○	○	○	○	○	○	○	○	○			
FABRONIA Raddi																	
<i>F. australis</i> Hook.	○	●	★	●	○	●	●	○	●	●	○	★	★	○	QVTS- WA	NZ	
[<i>F. tayloriana</i> Hampe, <i>F. hampeana</i> auct. non Sonder]																	
<i>F. brachyphylla</i> C. Muell.	○	★	●	○	○	○	★	○	○	○	○	○	○	○	QA		
<i>F. scottiae</i> C. Muell.	○	●	●	●	○	○	○	●	●	●	○	○	○	○	Q		
ISCHYRODON C. Muell.																	
<i>I. lepturus</i> (Tayl.) Schelpe	○	○	○	●	○	○	○	○	○	○	○	○	○	○	VSW	NZ, S Afr	
[<i>I. seriolus</i> (C. Muell.) C. Muell., <i>Fabronia leptura</i> Tayl., <i>Juratzaea leptura</i> (Tayl.) Buck]																	
HELICODONTIADELPHUS Dix.																	
<i>H. australiensis</i> Dix.†	○	○	○	○	○	○	★	○	○	○	○	○	○	○			
[<i>Eriodon cylindritheca</i> (Dix.) Dix. & Sainsb. ex Sainsb.]																	

† Known only from specimens at E, NY, BM.

71. LESKEACEAE

PSEUDOLESKEA B.S.G.

P. imbricata (Hook. f. & Wils.) Broth. ○ ★ ● ● ● ● ● ● ● ○ ○ ○ ○ QVTS A NZ
[P. calochlora Broth. & Watts
Pseudoleskeopsis imbricata (Hook. f. & Wils.)
 Ther.]

72. THUIDIACEAE

ANOMODON Hook. & Tayl.

A. tasmanicus Broth. o o o o o o ● o o o o o o o VTSA NZ

HAPLOHYMENIUM Dozy & Molk.

THUIDIUM B.S.G.

T. cymbifolium (Dozy & Molk.) Dozy & Molk. ● ? ○ ○ ○ ★ ○ ○ ○ ★ ○ ○ ○ ○ ○ ○ Q As, Oc

[*T. ramentosum* (Mitt.) Mitt.]

T. furfurosum (Hook. f. & Wils.) Reichdt. . . ● ● ● ● ● ● ● ● ○ ● ○ ○ ○ ○ ○ QVTS- WA S Hemis
 [*Thuidiopsis furfurosa* (Hook. f. & Wils.)

Fleisch., *Thuidium amblystegioides* C. Muell.,
T. hastatum (Mitt.) Reichdt., *T. suberectum*
(Hampe) Jaeg., *T. unguiculatum* (Hook. f. &
Wils.) Fleisch.]

T. furfurosum (Hook. f. & Wils.) Reichdt. var.
sparsum (Hook. f. & Wils.) Sainsb. . . .

T. liliputanum Broth. .

T. nano-delicatulum (Hampe) Jaeg.

T. plumulosiforme (Ha)

T. protensulum C. Muell.

T. subglaucinum Card.

T. trachypodioides Broth. & W.

<i>D. uncinatus</i> (Hedw.) Warnst., also known as Sanionia uncinatus (Hedw.) Loeske	..	○ ○ ○ ○ ○ ○ ○ ● ★ ○ ○ ○ ○ ○ ○ ○	VTA	Cosmop Eur, As, Amer
<i>D. tundrae</i> (Arn.) Loeske	.. .. .. .. ..	○ ○ ○ ○ ○ ○ ○ ● ★ ○ ○ ○ ○ ○ ○ ○	
LEPTODICTYUM (Schimp.) Warnst.				
<i>L. riparium</i> (Hedw.) Warnst. [<i>L. muelleri</i> (Hampe & C. Muell.) Broth., ? <i>Drepanocladus strictifolius</i> Broth. & Watts]	.. .. .. .. ..	○ ● ★ ○ ● ○ ● ○ ★ ○ ● ○ ○ ○ ○ ○	VSA	NZ, N Hemis

74. BRACHYTHECIACEAE

BRACHYTHECIUM B.S.G.

<i>B. albicans</i> (Hedw.) B.S.G.	.. .. .. ..	○ ○ ○ ○ ○ ○ ○ ★ ○ ○ ○ ○ ○ ○ ○ ○	VTA	N Hemis
<i>B. novae-valesiae</i> Geh. [Known only from type at BM]	.. .. .. ..	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	
<i>B. paradoxum</i> (Hook. f. & Wils.) Jaeg.	.. ..	○ ○ ○ ○ ○ ○ ○ ★ ○ ● ○ ○ ○ ○ ○ ○ ○ ○	VTA	NZ, S Afr, S Amer Cosmop
<i>B. plumosum</i> (Hedw.) B.S.G. [<i>B. pseudo-plumosum</i> (Brid.) Brockm.]	.. .. .. ..	○ ● ● ○ ○ ○ ○ ○ ● ○ ○ ○ ○ ○ ○ ○ ○	A	
<i>B. rivulare</i> B.S.G.	.. .. .. ..	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○		N Hemis, S Afr Cosmop
<i>B. rutabulum</i> (Hedw.) B.S.G.	.. .. .. ..	○ ○ ○ ○ ● ★ ● ● ○ ○ ○ ○ ○ ○ ○ ○ ○	VTSA	
<i>B. salebrosum</i> (Web. & Mohr) B.S.G.	.. .. .. ..	○ ○ ○ ○ ★ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	VTA	Cosmop

EURHYNCIUM B.S.G.

<i>E. austrinum</i> (Hook. f. & Wils.) Jaeg.	.. ..	○ ● ○ ★ ● ○ ○ ★ ○ ○ ○ ○ ○ ○ ○ ○	VTA	NZ, Subant I
[<i>Platyhypnidium austrinum</i> (Hook. f. & Wils.) Fleisch., <i>Oxyrrhynchium austrinum</i> (Hook. f. & Wils.) Broth.]				
<i>E. cucullatum</i> (Mitt.) Stone & Scott	.. ..	○ ● ★ ○ ○ ○ ○ ○ ○ ★ ★ ○ ○ ○ ○ ○ ○	QVT	
[<i>Rhynchosstegiella cucullata</i> (Mitt.) Dix., <i>R. convolutifolia</i> (Hampe) Broth., <i>R. subconvolutifolia</i> Broth. & Watts]				
<i>E. muriculatum</i> (Hook. f. & Wils.) Jaeg.	.. ..	● ● ★ ○ ○ ○ ★ ★ ○ ○ ○ ○ ○ ○ ○ ○	VT	NZ
[<i>Rhynchosstegiella muriculata</i> (Hook. f. & Wils.) Broth.]				
<i>E. speciosum</i> (Brid.) Jur.	.. .. .. ..	○ ★ ○ ★ ★ ? ○ ○ ○ ○ ○ ○ ○ ○ ○ ○		Eur, As
[<i>Oxyrrhynchium speciosum</i> (Brid.) Warnst.]				
[Previous record not substantiated: <i>E. asperipes</i> (Mitt.) Dix.]	.. ..	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	

74. BRACHYTHECIACEAE (cont'd)	L H I	C			T			WS			WP		FWP		EXTRA NSW	EXTRA AUST
		N	C	S	N	C	S	N	C	S	N	S	N	S		
OXYRRHYNCHIUM (B.S.G.) Warnst. <i>O. howeanum</i> Broth. & Watts		★	○	○	○	○	○	○	○	○	○	○	○	○		
RHYNCOSTEGIELLA (B.S.G.) Limpr. <i>R. campylioides</i> Broth. & Watts		●	○	○	○	○	○	○	○	○	○	○	○	○		
RHYNCHOSTEGIUM B.S.G. <i>R. sp. cf. dentiferum</i> (Hampe) Jaeg. <i>R. laxatum</i> (Mitt.) Par. <i>R. patulum</i> Jaeg. <i>R. stramineoides</i> (Sauerb.) Wijk & Marg. [<i>R. pseudo-stramineum</i> Mitt. nom. illeg.] <i>R. tenuifolium</i> (Hedw.) Reichdt. [<i>R. collatum</i> (Hook. f. & Wils.) Broth. & Watts, <i>R. subclavatum</i> (Hampe) Jaeg.] <i>R. tenuifolium</i> var. <i>howeanum</i> Broth. & Watts		○	○	○	○	○	★	○	○	○	○	○	○	○	VA VTA QV	NZ
		○	○	○	○	○	●	★	○	○	○	○	○	○		
		○	★	●	○	●	○	○	★	○	○	○	○	○		
		○	○	○	○	○	★	○	○	○	○	○	○	○		
		●	●	●	●	●	★	●	●	○	●	★	○	○	QVTS- WA	NZ, As, S Amer

75. ENTODONTACEAE

76. PLAGIOTHECIACEAE

77. SEMATOPHYLLACEAE

MEIOTHECIUM Mitt.
M. wattsii (Broth.) Broth. ○ ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ Q
 [*Pterogoniella wattsii* Broth.]

ISOPTERYGIUM Mitt.

81. BUXBAUMIACEAE

BUXBAUMIA Hedw.

83. POLYTRICHACEAE

ATRICHUM P. Beauv.

POGONATUM P. Beauv.

84. DAWSONIACEAE

	L	C	T	WS	WP	FWP	EXTRA NSW	EXTRA AUST
H	N	C	S	N	C	S	N	S
I								

	L H I	C			T			WS			WP		FWP		EXTRA NSW	EXTRA AUST
		N	C	S	N	C	S	N	C	S	N	S	N	S		

INDEX TO SYNONYMS

Acanthocladium crinitum (Hook. f. & Wils.) Broth. in Par. = *Wijkia extenuata*
A. crossii (Broth.) Geh. ex Broth. = *Wijkia crossii*
A. extenuatum (Brid.) Mitt. = *Wijkia extenuata*
Acaulon austro-muticum Geh. ex Roth = *A. integrifolium*
A. sullivanii C. Muell. = *A. integrifolium*
Acrocloadium auriculatum auct. non (Mont.) Mitt. = *A. chlamydophyllum*
A. cuspidatum (Hedw.) Lindb. = *Calliergonella cuspidata*
Aloina ambigua (B.S.G.) Limpr. = *A. aloides* var. *ambigua*
Ambylystegium subrelaxum Broth. = *Cratoneuropsis subrelaxa*
A. fontinaloides (Hampe) Mitt. = *Drepanocladus fontinaloides*
Andreaea amblyophylla C. Muell. ex Broth. = *A. mutabilis*
A. rupestris auct. non Hedw. = *A. mutabilis*
A. subulatissima C. Muell. = *A. subulata*
Anisothecium pycnoglossum Broth. = *Dicranella pycnoglossa*
A. jamesonii Mitt. = *Dicranella jamesonii*
Aongstroemia stackhousiana C. Muell. = *Dicranella stackhousiana*
A. rufo-aureum (Hampe) Willis = *Ditrichum rufo-aureum*
Aplodium lineare Mitt. = *Orthodontium lineare*
Archidium brisbanicum Broth. = *Eccremidium brisbanicum*
A. stolonaceum C. Muell. = *Eccremidium pulchellum*
Astomum brisbanicum (C. Muell.) Broth. = *Trachycarpidium brisbanicum*
A. cylindricum (Tayl.) Mitt. = *Tetrapherum cylindricum*
A. novae-valesiae Broth. ex Roth = *Weissia novae-valesiae*
A. viride C. Muell. = *Pleuridium viride*
A. wattsii Broth. ex Roth = *Trachycarpidium brisbanicum*
Atrichum angustatum (Brid.) B.S.G. var. *polysetum* Watts & Whitel. = *A. androgynum*
A. ligulatum Mitt. = *A. androgynum*

Barbella trichophoroidea (C. Muell.) Broth. = *B. enervis*
Barbula atro-virens (Sm.) Schimp. = *Desmatodon convolutus*
B. calycina Schwaegr. = *Tortella calycina*
B. pilifera (Hook.) Brid. = *B. crinita*
B. pseudopilifera C. Muell. & Hampe = *B. crinita*
B. rotundata Lindb. & Arn. = *Bryoerythrophyllum rotundatum*
B. subspiralis Hampe = *B. hornschuchiana*
Bartramia erecta (Hampe) Broth. = *B. hampei*
B. mossmanniana C. Muell. = *B. halleriana*
B. strictifolia Tayl. = *B. stricta*
Bartramidula hampei Mitt. = *Bartramia hampei*

Bescherella cyrtopus F. Muell. = *B. brevifolia*
Blindia tenuifolia (Hook. f. & Wils.) Mitt. = *B. robusta*
Brachymenium chloroblastum Watts & Whitel. = *B. preissianum*
B. pilosithecium Watts & Whitel. = *B. preissianum*
Brachysteleum australe (Hampe) Jaeg. = *Ptychomitrium australe*
B. laxifolium C. Muell. = *Ptychomitrium laxifolium*
Brachythecium pseudo-plumosum (Brid.) Brockm. = *B. plumosum*
Breutelia commutata Jaeg. = *B. affinis*
B. divaricata (Mitt.) Mitt. = *B. pendula*
B. fusco-aurea Broth. = *B. pendula*
B. sieberi Hornsch. ex C. Muell. = *B. pendula*
Bruchia amoena C. Muell. = *Trematodon amoenum*
B. whiteleggei C. Muell. = *Eccremidium minutum*
Bryobartramia robbinsi Sainsb. = *B. novae-valesiae*
Bryoerythrophyllum binsii (R. Br. ter.) Wijk & Marg. = *B. jamesonii*
Bryum abruptinervium C. Muell. = *B. billardieri* var. *billardieri*
B. aequicollum Broth. & Watts = *B. dichotomum*
B. affine Lindb. & Arn. = *B. creberrium*
B. amoenum Wright non Broth. = *B. subfuscum*
B. appressifolium Broth. = *B. australe*
B. austro-affine Broth. = *B. pseudotriquetrum*
B. austro-alpinum C. Muell. = *B. crassum*
B. baileyi Broth. = *B. nitens*
B. bicolor Dicks. = *B. pachytheca*
B. bimum (Brid.) Turn. = *B. pseudotriquetrum*
B. brachyaris C. Muell. in Mitt. = *B. billardieri* var. *billardieri*
B. brachytheciella C. Muell. = *B. dichotomum*
B. breviramulosum (Hampe) Mitt. = *B. billardieri* var. *billardieri*
B. brunneidens C. Muell. = *B. billardieri* var. *billardieri*
B. cheelii Broth. = *B. muehlenbeckii*
B. clavatum Hook. f. & Wils. = *B. erythrocarpoides*
B. crenatidens C. Muell. = *B. billardieri* var. *billardieri*
B. crispatum (Hampe) Mitt. = *B. billardieri* var. *billardieri*
B. curvicollum Mitt. = *B. erythrocarpoides*
B. dilatato-marginatum C. Muell. = *B. subfuscum*
B. diversinerve Broth. & Watts = *B. erythrocarpoides*
B. erythropyxis C. Muell. = *B. capillare* ssp. *torquescens*
B. filarium Broth. = *B. erythrocarpoides*
B. forsythii Broth. = *B. billardieri* var. *billardieri*
B. gambierense C. Muell. = *B. pachytheca*
B. globulare Hampe in C. Muell. = *B. billardieri* var. *billardieri*
B. howeanum Broth. & Watts = *B. campylothecium*
B. immarginatum Broth. = *B. capillare*
B. kiamae Broth. = *B. erythrocarpoides*
B. laxirete Broth. = *B. caespiticium*

B. leptopelma C. Muell. = *B. chrysoneuron*
B. leptotheциoides Broth. & Watts = *B. capillare*
B. leptotheциum Tayl. = *B. billardieri* var. *billardieri*
B. lochoneuron C. Muell. = *B. chrysoneuron*
B. microerythrocarpum C. Muell. & Kindb. = *B. pachytheca*
B. micropachypoma Broth. = *B. nitens*
B. microthecium C. Muell. = *B. chrysoneuron*
B. oblongifolium C. Muell. = *B. blandum*
B. olivaceum (Hampe) Mitt. = *B. billardieri* var. *billardieri*
B. pachypoma Mont. = *B. plumosum*
B. pachypomatulum Broth. = *B. nitens*
B. peraristatum C. Muell. = *B. campylothecium*
B. philonotideum Broth. & Watts = *B. dichotomum*
B. pimpanae C. Muell. = *B. dichotomum*
B. pohliaeopsis C. Muell. = *B. billardieri* var. *billardieri*
B. pusillum Broth. = *B. capillare*
B. pyrothecium C. Muell. & Hampe = *B. capillare* ssp. *torquescens*
B. robustum Hampe = *B. billardieri* var. *billardieri*
B. rufescens Hook. f. & Wils. = *B. billardieri* var. *billardieri*
B. subaeenum Hampe & C. Muell. = *B. pachytheca*
B. subattro-purpureum C. Muell. = *B. coronatum*
B. subcrispatum C. Muell. = *B. billardieri* var. *billardieri*
B. subcupulatum C. Muell. ex Rodw. = *B. dichotomum*
B. subcurvicolleum Broth. = *B. erythrocarpoides*
B. suberythrocarpum C. Muell. = *B. chrysoneuron*
B. sublonginervium Geh. in Watts & Whitel. = *B. capillare*
B. subolivaceum C. Muell. = *B. subfasciculatum*
B. subpachypoma Hampe = *B. nitens*
B. subtomentosum (Hampe) Mitt. = *B. billardieri* var. *billardieri*
B. subventricosum Broth. = *B. pseudotriquetrum*
B. sullivanii C. Muell. = *B. pachytheca*
B. synoicum C. Muell. = *B. capillare* ssp. *torquescens*
B. tasmanicum Hampe = *B. crebernum*
B. viridulum C. Muell. = *B. subfasciculatum*
B. wattsi Broth. = *B. chrysoneuron*
B. whiteleggei Broth. = *B. capillare*

Calomnion laetum Hook. f. & Wils. = *C. complanatum*
Calymperes armatum Broth. = *Syrhopodon incompletus*
Campylium relaxum (Hook. f. & Wils.) Broth. = *Cratoneuropsis relaxa*
C. decussatum (Hook. f. & Wils.) Broth. = *Cratoneuropsis relaxa*
C. subrelaxum (Broth.) Broth. = *Cratoneuropsis subrelaxa*
Camptochaete brisanica C. Muell. = *C. arbuscula* var. *deflexa*
C. deflexa (Wils.) Jaeg. = *C. arbuscula* var. *deflexa*
C. ramulosa (Mitt.) Jaeg. = *C. arbuscula*

Campylopus appressifolius Mitt. = *C. clavatus*
C. institutus Hook. f. & Wils. = *C. clavatus*
C. novae-valesiae Broth. = *C. pallidus*
C. pudicus (C. Muell.) Jaeg. = *C. introflexus*
C. tasmanicus Par. = *C. introflexus*
C. torquatus Mitt. = *C. pallidus*
C. woollsii (C. Muell.) Par. = *C. pallidus*
Catharinea leptocylindrica C. Muell. = *Atrichum androgynum* var. *androgynum*
C. muelleri C. Muell. & Hampe = *Atrichum androgynum* var. *androgynum*
Ceratodon convolutus Reichdt. = *C. purpureus*
C. stenocarpus Bruch. & Schimp. ex C. Muell. = *C. purpureus*
Cheilotrichia chilensis (Mont.) Broth. = *Chrysoblastella chilensis*
Conostomum australe Sw. = *C. pentastichum*
Cryphaea muelleri (Hampe) Broth. = *C. dilatata*
C. brevidens C. Muell. = *C. tenella*
C. novae-valesiae C. Muell. = *Papillaria flexicaulis*
C. squarrulosa Hampe = *C. ovalifolia*
Cryphidium muelleri (Hampe) Broth. = *Cryphaea dilatata*
C. ovalifolium (C. Muell.) Broth. = *Cryphaea ovalifolia*
C. squarrulosum (Hampe) Broth. = *Cryphaea ovalifolia*
Cyathophorum pennatum (Labill.) Brid. = *C. bulbosum*
C. pteridioides P. Beauv. = *C. bulbosum*
Cyptodon dilatatus (Hook. f. & Wils.) Par. & Schimp. = *Cryphaea dilatata*
C. ovalifolius (C. Muell.) Fleisch. = *Cryphaea ovalifolia*
Cyrtopus bescherelloides C. Muell. = *Beschereilla brevifolia*

Dawsonia appressa Hampe = *D. longisetia*
D. intermedia C. Muell. ex Schlieph. & Geh. = *D. superba* var. *pulchra*
D. longifolia (Bruch. & Schimp. in B.S.G.) Zant. var. *superba* Zant. =
D. superba var. *pulchra*
D. pulchra Wijk = *D. superba* var. *pulchra*
D. victoriae C. Muell. = *D. longisetia*
Desmatodon adustus Mitt. = *Barbula hornschuchiana*
Dichodontium wattsii (Broth.) Broth. = *Dicranella cardotii*
Distichophyllum leucoloma Broth. = *D. longicuspis*
Dicnemoloma sieberianum (Hornsch.) Broth. = *Dicnemoloma pallidum*
Dicranella wattsii Broth. = *D. cardotii*
D. tricruris (C. Muell.) Mitt. = *D. dietrichiae*
Dicranoloma bartramoides (Broth.) Par. = *D. menziesii*
Dicranum dicarpum Nees = *Dicranoloma dicarpum*
D. sullivanii C. Muell. = *Dicranoloma sullivanii*
D. whiteleggei C. Muell. = *Dicranoloma argutum*
D. scoparium Hedw. ssp. *bonjeani* (De Not.) Grout = *Dicranum bonjeanii*

Didymodon rotundatus (Lindb. & Arn.) Par. = *Bryoerthrophyllum rotundatum*
Distichophyllum amblyophyllum (Hook. f. & Wils.) Mitt. = *D. pulchellum*
D. fissidentoides C. Muell. = *D. rotundifolium*
D. leucoloma Broth. = *D. longicuspis*
D. squarrosum C. Muell. = *D. rotundifolium*
Ditrichum affine (C. Muell.) Hampe = *D. difficile*
D. baileyi C. Muell. = *D. difficile*
D. elongatum (Hook. f. & Wils.) Mitt. = *D. cylindricarpum*
D. flaccidulum C. Muell. in Watts & Whitel. = *D. difficile*
D. flexifolium Hampe = *D. difficile*
D. muelleri (Hampe) Hampe = *D. difficile*
D. setosum (Hook. f. & Wils.) Reichdt. = *D. difficile*
D. subbrachycarpum (C. Muell.) Par. = *D. brachycarpum*
Drepanocladus brachiatius (Mitt.) Dix. = *D. aduncus*
D. strictifolius Broth. & Watts = *Leptodictyum riparium*

Echinodium arboreum Broth. = *E. hispidum*
Ectropothecium slateri (Hampe) Jaeg. = *Vesicularia slateri*
Encalypta australis Mitt. = *E. vulgaris*
E. tasmanica Hampe = *E. vulgaris*
Entosthodon apophysata (Tayl.) Mitt. = *Funaria apophysata*
E. aristatus (Broth.) Par. = *Funaria aristata*
E. gracilis Hook. f. & Wils. = *Funaria gracilis*
E. smithurstii (Broth. & Geh.) Par. = *Funaria smithurstii*
E. squarrifolius (Broth.) Par. = *Funaria squarrifolia*
Ephemerum whiteleggei Broth. & Geh. = *Eccremidium minutum*
Eriopus apiculatus (Hook. f. & Wils.) Mitt. = *Calyptrochaeta apiculata*
Euptychium cuspidatum (Mitt.) Mitt. = *E. setigerum*

Fabronia hampeana auct. non Sonder = *F. australis*
F. leptura Tayl. = *Ischyrodon lepturus*
F. tayloriana Hampe = *F. australis*
Fissidens brevifolius Hook. f. & Wils. = *F. taylorii*
F. dietrichiae C. Muell. = *F. crassipes*
F. elatmellosum C. Muell. & Hampe = *F. taylorii*
F. macrodus Hampe = *F. taylorii*
F. muelleri (Hampe) Mitt. = *F. fontanus*
F. praemollis Broth. = *F. crassipes*
F. semilimbatus C. Muell. & Hampe = *F. taylorii*
F. whiteleggei C. Muell. ex Rodway = *F. pallidus*
Funaria calvescens Schwaegr. = *F. hygrometrica*
F. crispula Hook. f. & Wils. = *F. glabra*
F. hygrometrica Hedw. var. *sphaerocarpa* C. Muell. = *F. hygrometrica*

F. subnuda Tayl. = *F. glabra*
F. tasmanica C. Muell. & Hampe = *F. glabra*
Glyphomitrium adamsonii Mitt. = *Ptychomitrium australe*
G. commutatum (C. Muell.) Broth. = *Ptychomitrium australe*
G. howeanum (Hampe) Broth. = *Ptychomitrium muelleri*
G. muelleri (C. Muell.) Broth. = *Ptychomitrium muelleri*
Goniobryum pellucidum (Mitt.) Broth. = *G. subbasilare*
Grimmia alpestris Sommerf. = *G. donniana*
G. apocarpa Hedw. = *Schistidium apocarpum*
G. campestris Burchell ex Hook. = *G. laevigata*
G. cygnicolla Tayl. = *G. pulvinata* var. *africana*
G. flexifolia Hampe = *Schistidium rivulare* ssp. *rivulare*
G. leiocarpa Tayl. = *G. laevigata*
G. leucophaea Grev. = *G. laevigata*
G. mutica Hampe = *Schistidium apocarpum*
G. pulvinata (Hedw.) Sm. var. *obtusa* (Brid.) Heub. = *G. pulvinata* var. *africana*
Gymnostomum calcareum (Nees) Hornsch. = *G. aeruginosum*
Haplohymentium brevinerve (Broth.) Broth. = *H. pseudotriste*
Hedwigia albicans Lindb. = *H. ciliata*
H. juratzkae C. Muell. = *H. ciliata*
H. microcyathaea (C. Muell.) Par. = *H. ciliata*
Hedwigidium imberbe (Sm.) B.S.G. = *Hedwigia integrifolia*
H. integrifolium (P. Beauv.) Dix. = *Hedwigia integrifolia*
Holomitrium dietrichiae C. Muell. = *H. perichaetiale*
H. hodgkinsoniae C. Muell. = *H. perichaetiale*
H. muelleri Hampe = *H. perichaetiale*
H. whiteleggei C. Muell. = *H. perichaetiale*
Homalia acuminata C. Muell. = *Thamnobryum pumilum*
Hookeria karsteniana Broth. & Geh. = *Cyclodictyon lepidum*
Hypnodendron praenitens (Hampe) Mitt. = *Pterobryella praenitens*
Hypopterygium didictyon C. Muell. = *H. rotulatum*
H. hyalino-limbatum C. Muell. = *Lopidium concinnum*
H. novae-seelandiae C. Muell. = *H. rotulatum*
H. pallens (Hook. f. & Wils.) Mitt. = *Lopidium concinnum*
H. scottiae C. Muell. = *H. muelleri*
Hypnodendron arcuatum non Hedw. = *H. vitiense* ssp. *australe*
H. arcuatum (Hedw.) Mitt. pro parte = *H. spininervium* ssp. *archeri*
H. whiteleggei C. Muell. ex Burges = *H. vitiense* ssp. *australe*
Hypnum cupressiformis L. var. *mossmanii* = *H. cupressiforme* var. *mossmanianum*
H. mossmanianum C. Muell. = *H. cupressiforme* var. *mossmanianum*

Ischyrodon seriulus (C. Muell.) C. Muell. = *I. lepturus*
Isopterygium austro-pusillum (C. Muell.) Jaeg. = *I. minutirameum*
I. austro-subulatum C. Muell. = *I. minutirameum*
I. candidum (C. Muell.) Jaeg. = *I. albescens*
I. novae-valesiae Broth. = *Taxithelium novae-valesiae*
I. molliculum (Sull.) Mitt. = *I. albescens*

Juratzaea leptura (Tayl.) Buck = *Ischyrodon lepturus*

Lembophyllum brisbanicum C. Muell. = *Camptochaete gracilis*
L. clandestinum (Hook. f. & Wils.) Lindb. = *L. divulsum*
L. vagum (C. Muell.) Lindb. = *Camptochaete vaga*
Leptodictyum muelleri (Hampe & C. Muell.) Broth. = *L. riparium*
Leptodon australis C. Muell. = *L. smithii*
Leptodontium interruptum (Mitt.) non Broth. = *L. paradoxum*
Leucobryum brachypodium Hampe = *L. candidum*
L. speirostichum C. Muell. in Geh. = *L. candidum* var. *pentastichum*
L. spirostichum C. Muell. in Mitt. = *L. candidum* var. *pentastichum*
L. strictifolium Broth. = *L. candidum*
L. teysmannianum Dozy & Molk. = *L. candidum*
Leucoloma austro-scoparium C. Muell. ex Broth. = *Dicranoloma argutum*
L. dicarpum (Nees) Broth. = *Dicranoloma dicarpum*
L. sieberianum (Hornsch.) Jaeg. = *Dicnemoloma pallidum*
L. serratum Broth. = *Dicranoloma serratum*
Lopidium plumarium (Mitt.) Hampe = *L. concinnum*

Macromitrium asperulum Mitt. = *M. ligulare*
M. brevisetaceum Hampe = *M. brachypodium*
M. carinatum Mitt. = *M. involutifolium* ssp. *ptychomitrioides*
M. circinocladum C. Muell. = *M. diaphanum*
M. daemelii C. Muell. = *M. involutifolium*
M. dimorphum C. Muell. = *M. caloblastoides*
M. eucalyptorum C. Muell. & Hampe = *Macrocoma tenue* ssp. *tenue*
M. geheebei C. Muell. = *Macrocoma tenue* ssp. *tenue*
M. ligulatum C. Muell. = *M. ligulaefolium*
M. malacoblastum C. Muell. = *M. involutifolium*
M. microphyllum (Hook. & Grev.) Brid. = *Macrocoma tenue* ssp. *tenue*
M. novae-valesiae C. Muell. = *Macrocoma tenue* ssp. *tenue*
M. prolixum Bosw. = *M. microstomum*
M. pugionifolium C. Muell. = *M. repandum*
M. pusillum Mitt. = *M. archeri*
M. rodwayi Dix. = *M. longirostre*
M. scottiae C. Muell. = *M. microstomum*
M. subrevicaule Broth. & Watts = *M. brevicaule*
M. tasmanicum Broth. = *M. microstomum*

M. wattsii Broth. = *M. brevicaule*
M. weissioides C. Muell. = *M. ligulare*
M. weymouthii Broth. = *M. microstomum*
M. whiteleggei Broth. & Geh. = *M. repandum*
M. woollsianum C. Muell. = *M. ligulaefolium*
Meteoriump ambyacis (C. Muell.) Mitt. = *Papillaria ambyacis*
M. dimorphum (C. Muell.) Mitt. = *Pilotrichella dimorpha*
M. intricatum Mitt. = *Papillaria intricata*
M. kermadecensis (C. Muell.) Mitt. = *Papillaria crocea*
M. trichophoroides (C. Muell.) Mitt. = *Barbella enervis*
Micromitrium brisbanicum (Broth.) Crosby = *Eccremidium brisbanicum*
Mielichhoferia ecklonii Hornsch. = *M. bryoides*
M. forsythii Broth. = *M. australis*
Mittenia rotundifolia (C. Muell.) Par. = *M. plumula*
Mniadelphis adnatus (Hook. f. & Wils.) Reichdt. = *Distichophyllum crispulum*
M. amblyophyllum (Hook. f. & Wils.) Jaeg. = *Distichophyllum pulchellum*
M. crispulus (Hook. f. & Wils.) C. Muell. = *Distichophyllum crispulum*
M. subminutifolius Broth. & Geh. = *Distichophyllum subminutifolium*
Mniobryum albicans (Wahlenb.) Limpr. = *Pohlia wahlenbergii*
M. tasmanicum Broth. = *Pohlia wahlenbergii*
M. wahlenbergii (Web. & Mohr.) Jenn. = *Pohlia wahlenbergii*
Mniodesmum comosum (Labill.) Lindb. = *Hypnodendron comosum*
Mnium rostratum auct. non Schrad. = *Plagiommium novae-zealandiae*
M. longirostrum Brid. = *Plagiommium novae-zealandiae*
M. novae-valesiae C. Muell. in Geh. = *Plagiommium novae-zealandiae*

Nanomitrium brisbanicum (Broth.) Broth. = *Eccremidium brisbanicum*
Neckera hymenodonta C. Muell. = *N. pennata*

Orthodontium australe Hook. f. & Wils. = *O. lineare* ssp. *sulcatum*
O. ovale C. Muell. ex Broth. = *O. inflatum*
O. pallens (Hook. f. & Wils.) Broth. = *O. lineare* ssp. *sulcatum*
O. sulcatum Hook. f. & Wils. = *O. lineare* ssp. *sulcatum*
O. zetterstedtii C. Muell. = *O. lineare* ssp. *sulcatum*
Orthorrhynchium cymbifolioides C. Muell. = *O. elegans*
O. hampeanum C. Muell. = *O. elegans*
Orthotrichum acrolepharitis C. Muell. = *O. longithecum*
O. campbelliae Watts & Whitel. = *O. tasmanicum*
O. encalyptaceum C. Muell. = *O. tasmanicum*
O. laterale Hampe = *O. tasmanicum*
O. sullivanii C. Muell. = *O. rupestre*
Oxyrrhynchium austrinum (Hook. f. & Wils.) Broth. = *Eurhynchium austrinum*
O. speciosum (Brid.) Warnst. = *Eurhynchium speciosum*

Papillaria cerina (Hook. f. & Wils.) Par. = *P. flavolimbata*
P. filipendula (Hook. f. & Wils.) Jaeg. = *P. flexicaulis*.
P. kermadecensis (C. Muell.) Jaeg. = *P. crocea*
P. nitidiuscula Broth. = *P. nitens*
P. scottiae (C. Muell.) Par. = *P. flexicaulis*
Phascum apiculatum Hook. f. & Wils. = *Acaulon integrifolium*
P. sullivani C. Muell. = *Tetrapterum sullivani*
P. tasmanicum Dix. & Rodw. = *Acaulon crassinervium*
Philonotis affinis (Hook.) Jaeg. = *Breutelia affinis*
P. appressa (Hook. f. & Wils.) Mitt. = *P. scabrifolia*
P. fertilis (Mitt.) Mitt. = *P. tenuis*
P. pseudomollis (C. Muell.) Jaeg. = *P. tenuis*
P. remotifolia (Hook. f. & Wils.) Jaeg. = *P. scabrifolia*
Physcomitrella patens (Hedw.) B.S.G. var. *readeri* (C. Muell.) Tan =
P. readeri
P. subserratum Hampe = *P. conicum*
Physcomitrium conicum Mitt. = *P. pyriforme*
Platyhypnidium austrinum (Hook. f. & Wils.) Fleisch. = *Eurhynchium austrinum*
Pleuridium austro-subulatum Broth. ex Roth = *Eccremidium brisanicum*
P. gracilellum (Mitt.) Mitt. = *P. nervosum*
Pogonatum australasicum (C. Muell. & Hampe) Jaeg. = *P. subulatum*
Pohlia erythrocaulis Watts & Whitel. = *P. cruda*
Polytrichadelphus innovans (C. Muell.) Jaeg. = *P. magellanicus*
Polytrichum alpinum Hedw. = *Polytrichastrum alpinum*
P. cypellocarpum C. Muell. = *P. juniperinum*
P. ryparomitrium C. Muell. = *P. juniperinum*
P. sullivani Hampe = *P. piliferum*
Porotrichum arbusculum (Sm.) Mitt. = *Camptochaete arbuscula*
P. clandestinum (Hook. f. & Wils.) Mitt. = *Lembophyllum divulsum*
P. vagum (C. Muell.) Mitt. = *Camptochaete vaga*
Pottia brachyodus (Hampe) Jaeg. = *Desmatodon convolutus*
Pseudoleskeacalochlora Broth. & Watts = *P. imbricata*
Pseudoleskeopsis imbricata (Hook. f. & Wils.) Ther. = *Pseudoleskeacalochlora*
Psilopilum pyriforme (Hampe) Jaeg. = *P. crispulum*
Pterobryon whiteleggei Broth. = *Muellerobryum whiteleggei*
Pterogoniella wattsii Broth. = *Meiothecium wattsii*
Pterygophyllum dentatum (Hook. f. & Wils.) Dix. = *Achrophyllum dentatum*
P. hepaticaeformium (Hampe & C. Muell.) Jaeg. = *Achrophyllum dentatum*
P. nigellum (Hook. f. & Wils.) Mitt. = *Achrophyllum dentatum*
P. wattsii Broth. = *Achrophyllum wattsii*
Ptychomitrium adamsonii (Mitt.) Jaeg. = *P. australae*
P. commutatum (C. Muell.) Par. = *P. muelleri*

P. serratum (Mitt.) Hook. f. & Wils. nom. illeg. = *P. mittenii*
Racomitrium leptostomoides Forster = *Racomitrium lanuginosum*
R. sullivanii (C. Muell.) Broth. = *Racomitrium crispulum*
R. symphodon Jaeg. = *Racomitrium crispulum*
Racopilum convolutaceum (C. Muell.) Reichdt. = *R. cuspidigerum* var. *convolutaceum*
R. pacificum Besch = *R. cuspidigerum* var. *cuspidigerum*
R. strumiferum (C. Muell.) Mitt. = *R. cuspidigerum* var. *convolutaceum*
Rhacocarpus australis (Hook. f. & Wils.) Par. = *R. purpurascens*
R. humboldtii (Hook.) Lindb. = *R. purpurascens*
Rhaphidorrhynchium amoenum (Hedw.) Fleisch. = *Sematophyllum amoenum*
R. callidioides (C. Muell.) Broth. = *Sematophyllum amoenum*
R. homomallum (Hampe) Mitt. = *Sematophyllum homomallum*
R. jolliffii Hook. f. = *Sematophyllum jolliffii*
R. subfalcatum (Broth. & Watts) Mitt. = *Pungentella subfalcatum*
R. tenuirostre (Hook.) Broth. = *Sematophyllum uncinatum*
Rhaphidostegium aciculum Broth. ex Dix. = *Sematophyllum aciculum*
R. callidioides (C. Muell.) Jaeg. = *Sematophyllum amoenum*
R. contiguum (Mitt.) Par. = *Sematophyllum contiguum*
R. crassiusculum Brid. = *Sematophyllum crassiusculum*
R. homomallum (Hampe) Broth. = *Sematophyllum homomallum*
R. luciduloides Dix. = *Sematophyllum luciduloides*
R. micropyx Broth. = *Sematophyllum wattsii*
R. subfalcatum (Broth. & Watts) Broth. = *Pungentella subfalcatum*
R. tenuirostre (Hook.) Jaeg. = *Sematophyllum uncinatum*
R. wattsii Par. = *Sematophyllum wattsii*
Rhizogonium geheebei C. Muell. = *R. distichum*
R. graeffeanum (C. Muell.) Jaeg. = *R. distichum*
R. mnioides (Hook. f. & Wils.) Reichdt. = *Pyrrhobryum mnioides*
R. parramattense (C. Muell.) Reichdt. = *Pyrrhobryum parramattense*
R. spiniforme Hedw. = *Pyrrhobryum spiniforme*
Rhodobryum leucocanthum Hampe = *Bryum leucocanthum*
R. subfasciculatum Hampe = *Bryum subfasciculatum*
Rhynchosstegiella convolutifolia (Hampe) Broth. = *Eurhynchium cucullatum*
R. cucullata (Mitt.) Dix. = *Eurhynchium cucullatum*
R. muriculata (Hook. f. & Wils.) Broth. = *Eurhynchium muriculatum*
R. subconvolutifolia Broth. & Watts = *Eurhynchium cucullatum*
Rhynchosstegium collatum (Hook. f. & Wils.) Broth. & Watts = *R. tenuifolium*
R. pseudo-stramineum Mitt. = *R. stramineoides*
R. subclavatum (Hampe) Jaeg. = *R. tenuifolium*
R. muriculata (Hook. f. & Wils.) Broth. = *Eurhynchium muriculatum*

- R. subconvolutifolia* Broth. & Watts = *Eurhynchium cucullatum*
- Schlotheimia baileyi* Broth. = *S. brownii*
- Sciaromium hispidum* (Hook. f. & Wils.) Par. = *Echinodium hispidum*
- Sclerodontium pallidum* Hook. = *Dicnemoloma pallidum*
- Sphagnum antarcticum* Mitt. = *S. australe*
- S. brotherusii* Warnst. = *S. falcatulum*
- S. commutatum* Warnst. = *S. molliculum*
- S. comosum* C. Muell. = *S. molliculum*
- S. cuspidatum* Erh. ex Hoffm. = *S. falcatulum*
- S. cymbifoloides* C. Muell. = *S. molliculum*
- S. decipiens* Warnst. = *S. cristatum*
- S. drepanocladum* Warnst. = *S. falcatulum*
- S. erythrocalyx* auct. non Hampe = *S. beccarii*
- S. grandifolium* Warnst. = *S. cristatum*
- S. magellanicum* Brid. = *S. cristatum*
- S. novo-zealandicum* Mitt. = *S. molliculum*
- S. perichaetiale* Warnst. = *S. australe*
- S. pseudo-rufescens* Warnst. = *S. molliculum*
- S. serratifolium* Warnst. = *S. falcatulum*
- S. subbicolor* Hampe = *S. cristatum*
- S. subcontortum* Hampe = *S. molliculum*
- S. subsecundum* auct. non Nees = *S. molliculum*
- S. wardellense* Warnst. = *S. cristatum*
- S. wattsii* Warnst. = *S. falcatulum*
- Spiridens muelleri* Hampe = *S. vieillardii*
- Sporledera minutissima* (Dix. & Sainsb.) Sainsb. = *Eccremidium whiteleggei*
- S. whiteleggei* (C. Muell.) Broth. = *Eccremidium minutum*
- Stereodon chrysogaster* (C. Muell.) Mitt. = *Hypnum chrysogaster*
- S. cupressiformis* (Hedw.) Mitt. = *Hypnum cupressiforme*
- S. cupressiformis* (Hedw.) Brid. var. *mossmanii* Mitt. = *Hypnum cupressiforme* var. *mossmannii*
- S. walterianus* (Hampe) Mitt. = *Hypnum cupressiforme*
- Syrrhopodon wattsii* Broth. = *Calymperopsis wattsii*
- Tayloria novae-valesiae* (C. Muell.) Watts & Whitel. = *T. octoblepharum*
- Thamnium efflagellare* Aongstr. = *Thamnobryum pandum*
- T. gracillimum* (Hampe) Broth. & Watts = *Thamnobryum pumilum*
- T. pandum* (Hook. f. & Wils.) Jaeg. = *Thamnobryum pandum*
- T. pumilum* (Hook. f. & Wils.) Lindb. = *Thamnobryum pumilum*
- Thuidiopsis furfurosa* (Hook. f. & Wils.) Fleisch. = *Thuidium furfurosum*
- Thuidium amblystegioides* C. Muell. = *T. furfurosum*
- T. hastatum* (Mitt.) Reichdt. = *T. furfurosum*
- T. ramentosum* (Mitt.) Mitt. = *T. cymbifolium*
- T. subereum* (Hampe) Jaeg. = *T. furfurosum*
- T. unguiculatum* (Hook. f. & Wils.) Fleisch. = *T. furfurosum*
- Tortella calycina* (Schwaegr.) Dix. = *Barbula calycina*
- T. nano-tortuosa* (C. Muell.) Watts & Whitel. = *T. knightii*
- T. subflavovirens* Broth. & Watts = *T. cirrhata*
- Tortula acuminata* Brid. = *Barbula unguiculata*
- T. asperifolia* Broth. = *T. crawfordii*
- T. atro-virens* (Sm.) Lindb. = *Desmatodon convolutus*
- T. austro-muralis* (C. Muell.) Broth. ex Par. = *T. muralis*
- T. baileyi* auct. non Broth. = *T. pagorum*
- T. calycina* (Schwaegr.) Hook. & Grev. = *Tortella calycina*
- T. chlorotricha* Broth. & Geh. = *Barbula chlorotricha*
- T. flavinervis* Dix. = *Barbula crinita*
- T. melbourneana* (C. Muell.) Broth. = *T. muralis*
- T. pungens* Hook. f. & Wils. = *Barbula crinita*
- T. subcalycina* (C. Muell.) Mitt. = *Barbula subcalycina*
- T. sullivaniiana* (C. Muell.) Watts & Whitel. = *Aloina sullivaniiana*
- T. torquata* (Tayl.) Wils. = *Barbula torquata*
- Trachycarpidium novae-valesiae* Broth. = *Bryobartramia novae-valesiae*
- Trachyloma leptopyxis* C. Muell. = *T. diversinerve*
- Trachypus hornschuchii* Mitt. = *Papillaria crocea*
- Trematodon abruptus* Watts & Whitel. = *T. suberectus*
- T. adaequans* Geh. ex Roth = *T. suberectus*
- T. alpinus* J.H. Willis = *T. flexipes*
- Trichostomopsis australasiae* (Hook. & Grev.) Robinson = *Barbula australasiae*
- Trichostomum subdenticulatum* C. Muell. = *Leptodontium viticulosoides*
- Webera nutans* Hedw. = *Pohlia nutans*
- W. tenuifolia* Jaeg. = *Pohlia tenuifolia*
- Weissia flavipes* Hook. f. & Wils. = *W. controversa*
- W. truncata* C. Muell. = *W. controversa*
- Whiteleggea australis* (Broth.) Broth. ex Par. = *Hampeella pallens*
- Wilsoniella compacta* Geh. in Watts & Whitel. = *Orthodontium inflatum*
- Zygodon brownii* Schwaegr. = *Z. intermedius*

UNSUBSTANTIATED RECORDS OF RECOGNISED SPECIES

Unsubstantiated records of recognised species amongst Australian collections are included to enable checking to be carried out and possible locations of specimens in overseas Herbaria where early collections e.g. those of C. Müller may be deposited.

Fissidentaceae

- Fissidens ampliretis* (*C. Muell.*) Broth.
- F. delicatus* Aongstr. in Watts & Whitel.
- F. perangustatus* Broth.

Dicranaceae

- Dicranella stackhousiana* (*C. Muell.*) Broth.
[*Aongstroemia stackhousiana* C. Muell.]
- Dicnemoloma fraseri* (*Mitt.*) Ren.
- D. imbricatum* Broth. & Geh.
- D. strictipilum* (*C. Muell.*) Par.

Encalyptaceae

- Encalypta novae-valesiae* Hampe

Pottiaceae

- Tortula crawfordii* (Par.) Watts in Watts & Whitel.
[*T. asperifolia* Broth.]
- T. parrattana* Mitt.
[*Barbula parrattana* (Mitt.) Kind.]

Funariaceae

- Physcomitrium flaccidum* Mitt.

Bryaceae

- Bryum bauerlenii* C. Muell.
- B. brachycladulum* C. Muell.
- B. ischyrrhodon* C. Muell.

Bartramiales

- Breutelia bauerlenii* (*C. Muell.*) Watts & Whitel.
- B. leptodontoides* (*C. Muell.*) Watts & Whitel.
- B. lonchopelma* (*C. Muell.*) Watts & Whitel.

Ptychomniaceae

- Glyphothecium perrottii* C. Muell.

Neckeraceae

- Thamnobryum (Thamnium) novae-valesiae* Kindb.

Amblystegiaceae

- Amblystegium novae-valesiae* Broth. & Watts

Brachytheciaceae

- Eurhynchium asperipes* (*Mitt.*) Dix.

Polytrichaceae

- Polytrichum recurvirostrum* C. Muell.

NOMINA NUDA

The purpose of listing *nomina nuda* is to encourage examination of the material to determine which names should be absorbed into the synonymy and which require validation as new species. The list includes only those names in literature (not names *in scheda*) which appear in Index Muscorum. The number of collections (>3 or ≤3) to which the name has been applied and the localities represented by these specimens are included to indicate whether the name has been widely used or not.

○ absent ● > 3 collections ★ ≤ 3 collections

Tortella angusticaulis <i>Watts & Whitel.</i>	..	○	○	●	○	★	○	○	○	○	○	○	○	○	○	○	○	○	○
T. aristatula <i>Broth. in Watts & Whitel.</i>	..	○	○	○	○	●	●	○	○	○	○	○	○	○	○	○	○	○	○
Tortula brunnea <i>Broth. & Watts</i>	..	○	○	○	○	●	●	★	○	○	○	○	○	○	○	○	○	○	○
T. mollissima <i>Broth. in Watts & Whitel.</i>	..	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
T. rotundata <i>Geh. in Watts & Whitel.</i>	..	○	○	○	○	○	○	○	●	○	○	○	○	○	○	○	○	○	○
Triquetrella albicuspis <i>Broth. in Broth. & Watts</i>	..	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Weissia tortelloides <i>Broth. in Watts & Whitel.</i>	..	○	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
W. whiteleggeana <i>C. Muell. in Watts & Whitel.</i>	..	○	○	○	●	○	○	○	●	○	○	○	○	○	○	○	○	○	○
19. FUNARIACEAE																			
Funaria pilifera (<i>Mitt.</i>) <i>Broth.</i>	..	○	○	★	○	★	○	○	○	○	○	★	○	○	○	○	○	○	○
F. woolesianus <i>C. Muell. in Watts & Whitel.</i>	..	○	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Physcomitrium novae-valesiae <i>Broth. in Watts & Whitel.</i>	..	○	●	○	○	○	●	○	○	○	○	★	○	○	○	○	○	○	○
24. BRYACEAE																			
Bryum leucocoloma <i>Broth. in Burg.</i>	..	○	○	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○
B. pseudotriquetrum <i>Broth. in Burg.</i>	..	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
B. subinclinatum <i>Watts & Whitel.</i>	..	○	○	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○
B. subleptotheicum <i>C. Muell.</i>	..	○	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
37. BARTRAMIACEAE																			
Philonotis harrisi <i>Geh. in Watts & Whitel.</i>	..	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
P. fontanoides <i>Broth. & Watts</i>	..	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
P. micropteris <i>Broth. in Watts & Whitel.</i>	..	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
P. percapillaris <i>C. Muell. in Watts & Whitel.</i>	..	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
P. subsimplex <i>Watts & Whitel.</i>	..	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
P. uncinatula <i>C. Muell.</i>	..	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
P. whiteleggei <i>Watts & Whitel.</i>	..	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
42. ORTHOTRICHACEAE																			
Macromitrium hartmannii <i>C. Muell. ex Kindb.</i>	..	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M. richmondiae <i>Broth. in Watts & Whitel.</i>	..	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
(<i>M. subhemimitrichoides</i> <i>Broth.</i>)																			
M. sheareri <i>Broth.</i>																			
(<i>M. microblastum</i> <i>Broth.</i>)																			
M. rupicola <i>C. Muell. in Watts & Whitel.</i>	..	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
48. CRYPTOPHYLLACEAE																			
Cryptphlea viridissima <i>C. Muell.</i>	..	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
61. LEMBOPHYLLACAE																			
Camptochaete deflexula <i>C. Muell. in Burg.</i>	..	○	○	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○

All specimens with these names have been
examined and correctly identified
by Vitt & Ramsay.
These names remain as *nomina nuda*.

NOMINA NUDA	L H I	C			T			WS			WP		FWP		EXTRA NSW	EXTRA AUST
		N	C	S	N	C	S	N	C	S	N	S	N	S		
65. HOOKERIACEAE																
Distichophyllum subflexuosum Broth. in Burg.		○	○	★	○	○	○	○	○	○	○	○	○	○	○	○
D. wattianum Broth.		○	★	○	○	○	○	○	○	○	○	○	○	○	○	○
70. FABRONIACEAE																
Fabronia novae-valesiae Geh. in Burg.	..	○	○	○	●	○	○	○	○	○	○	○	○	○	○	○
71. BRACHYTHECIACEAE																
Rhynchostegium incurvum Mitt.	..	○	○	○	★	○	○	○	○	○	○	○	○	○	○	○
72. THUIDIACEAE																
Thuidium atrovirens C. Muell.	..	○	○	★	○	○	○	○	○	○	○	○	○	○	○	○
T. erectum Hampe in Mitt.	..	○	○	○	○	○	★	○	○	○	○	○	○	○	○	○
T. squalidiusculum C. Muell. in Burg.	..	○	○	★	○	○	○	○	○	○	○	○	○	○	○	○
?T. subilliputatum Broth.	..	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○
73. AMBLYSTEGIACEAE																
Amblystegium campylopodioides Broth. in Burg.	..	○	○	○	○	○	○	○	●	○	○	○	○	○	○	○
A. orbiculare Jaeg. (Porotrichum orbiculare Mitt.)	..	★	○	○	○	○	○	○	○	○	○	○	○	○	○	○
76. PLAGIOTHECIACEAE																
Plagiothecium amblystomum C. Muell. in Burg.	..	○	○	★	○	○	○	○	○	○	○	○	○	○	○	○
P. howeanum Jaeg.	..	★	○	○	○	○	○	○	○	○	○	○	○	○	○	○
77. SEMATOPHYLLACEAE																
Acanthocladium sericeum Broth. in Burg.	..	○	○	★	○	○	○	○	○	○	○	○	○	○	○	○
Rhaphidostegium brachytheciella C. Muell. in Burg.	..	○	○	★	○	○	○	○	○	○	○	○	○	○	○	○
R. calocarpum C. Muell. in Burg.	..	○	○	★	○	○	○	○	○	○	○	○	○	○	○	○
78. HYPNACEAE																
Hyocomium brachythecioides Broth.	..	○	★	○	○	○	○	○	○	○	○	○	○	○	○	○
Hypnum pseudo-demissum C. Muell.	..	○	○	●	●	○	○	○	○	○	○	○	○	○	○	○
Isopterygium umbilicatum Mitt.	..	○	○	●	●	○	○	○	○	○	○	○	○	○	○	○
I. viride-patens C. Muell. in Burg.	..	○	○	●	●	●	●	●	●	○	○	○	○	○	○	○
Pylaisia pseudo-homomalla Jaeg.	..	○	●	●	●	●	●	●	●	○	○	○	○	○	○	○

UNSUBSTANTIATED NOMINA NUDA

The following names have appeared in literature but no specimens have yet been located with these names.

Fissidentaceae

- Fissidens appplanatus C. Muell.*
- F. perangustus C. Muell.*
- F. porosus Hampe*
- F. whiteleggeanus C. Muell.*
- F. woollahrae Broth.*

Dicranaceae

- Holomitrium novae-valesiae C. Muell. in Geh.*

Leucobryaceae

- Leucobryum australe Watts & Whitel.*

Funariaceae

- Entosthodon cuspidatus Kiaer in C. Muell.*
- Physcomitrium torquescens C. Muell.*

Bryaceae

- Pohlia pseudopallescens Hampe in C. Muell.*

Bartramiaceae

- Bartramia austro-alpina C. Muell.*
- Breutelia crawfordii Watts & Whitel.*
- B. luteola C. Muell. ex Broth. in Geh.*
- Philonotis austrolutea C. Muell. in Jaeg.*
- P. fontanoides Broth. & Watts*

Lembophyllaceae

- Porotrichum decurvatum Mitt.*

Brachytheciaceae

- Rhynchostegium latifolium Geh.*
- R. obtusissimum Geh.*
- R. parramattense Mitt.*

Sematophyllaceae

- Acanthocladium macro-extenuatum C. Muell. in Burg.*
- A. pseudo-extenuatum C. Muell. in Burg.*
- A. sub-extenuatum C. Muell. in Burg.*
- Rhaphidostegium tingiringense Geh. in Burg.*

Hypnaceae

- Hypnum subextenuatum C. Muell.*

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* Family number according to Crosby & Magill 1981.